

Data File : VU032189.D
Acq On : 21 May 2019 10:54
Operator : JC/SP
Sample : VSTD20055
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD20055

Quant Time: May 22 01:39:54 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM052119WMA.M
Quant Title : VOC Analysis
QLast Update : Wed May 22 01:34:46 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	882995	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	911720	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	486112	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	1076356	145.87	ug/L	0.00
7) Chloroethane-d5	1.65	69	931913	155.14	ug/L	-0.01
11) 1,1-Dichloroethene-d2	2.26	63	2025668	151.90	ug/L	0.00
21) 2-Butanone-d5	4.17	46	1489097	295.41	ug/L	0.00
24) Chloroform-d	4.64	84	2148512	169.99	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.30	65	1252875	158.34	ug/L	0.00
32) Benzene-d6	5.33	84	4507758	174.54	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.32	67	1310506	156.58	ug/L	0.00
41) Toluene-d8	7.56	98	4437312	189.88	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.84	79	698783	186.64	ug/L	0.00
47) 2-Hexanone-d5	8.31	63	1387760	401.19	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	2240869	178.93	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.85	152	1919968	189.22	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	1299531	163.230	ug/L	99
3) Chloromethane	1.32	50	1115418	130.181	ug/L	98
5) Vinyl chloride	1.40	62	1272653	140.291	ug/L	100
6) Bromomethane	1.60	94	764324	153.830	ug/L	100
8) Chloroethane	1.67	64	752737	139.814	ug/L	98
9) Trichlorofluoromethane	1.87	101	1777147	167.171	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	1062765	163.913	ug/L	99
12) 1,1-Dichloroethene	2.27	96	1077072	167.604	ug/L	94
13) Acetone	2.32	43	1169019	223.996	ug/L	99
14) Carbon disulfide	2.47	76	3146991	154.198	ug/L	99
15) Methyl Acetate	2.61	43	953282	121.318	ug/L	99
16) Methylene chloride	2.69	84	1207595	155.864	ug/L	99
17) trans-1,2-Dichloroethene	2.97	96	1135383	169.845	ug/L	96
18) Methyl tert-butyl Ether	2.99	73	3401040	167.887	ug/L	99
19) 1,1-Dichloroethane	3.44	63	1883853	147.320	ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	1318608	179.030	ug/L	98
22) 2-Butanone	4.25	43	1591376	267.790	ug/L	97
23) Bromochloromethane	4.54	128	673792	182.682	ug/L	98
25) Chloroform	4.67	83	2066288	160.337	ug/L	98
27) 1,2-Dichloroethane	5.40	62	1534233	155.653	ug/L	99
29) Cyclohexane	4.99	56	1677834	157.660	ug/L	99
30) 1,1,1-Trichloroethane	4.91	97	1772063	169.367	ug/L	99
31) Carbon tetrachloride	5.13	117	1567575	177.491	ug/L	100
33) Benzene	5.38	78	4711682	162.146	ug/L	100
34) Trichloroethene	6.18	95	1262701	172.738	ug/L	99
35) Methylcyclohexane	6.41	83	2014647	180.982	ug/L	99
37) 1,2-Dichloropropane	6.43	63	1133731	147.556	ug/L	99
38) Bromodichloromethane	6.75	83	1625394	168.674	ug/L	99
39) cis-1,3-Dichloropropene	7.26	75	2012991	182.023	ug/L	100
40) 4-Methyl-2-pentanone	7.46	43	2945138	290.504	ug/L	99

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42) Toluene	7.63	91	5498709	182.292	ug/L	100
44) trans-1,3-Dichloropropene	7.87	75	1799323	184.739	ug/L	99
45) 1,1,2-Trichloroethane	8.06	97	1279907	175.663	ug/L	97
46) Tetrachloroethene	8.22	164	1060634	198.969	ug/L	98
48) 2-Hexanone	8.36	43	2435970	295.450	ug/L	99
49) Dibromochloromethane	8.47	129	1439222	194.221	ug/L	98
50) 1,2-Dibromoethane	8.58	107	1392222	180.373	ug/L	98
51) Chlorobenzene	9.12	112	3627938	186.935	ug/L	99
52) Ethylbenzene	9.24	91	6133784	189.675	ug/L	100
53) m,p-Xylene	9.37	106	2436134	204.367	ug/L	98
54) o-xylene	9.77	106	2453125	207.419	ug/L	96
55) Styrene	9.79	104	4305087	212.492	ug/L	98
56) Isopropylbenzene	10.16	105	6315570	208.781	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.45	83	2216116	171.016	ug/L	97
59) 1,2,3-Trichloropropane	10.49	75	1701699	167.538	ug/L	99
61) Bromoform	9.95	173	1199466	185.016	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	3047673	191.777	ug/L	98
63) 1,4-Dichlorobenzene	11.50	146	3102737	185.412	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	3056339	181.674	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	490413	156.531	ug/L	98
67) 1,3,5-Trichlorobenzene	12.88	180	2347221	203.592	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	2063088	232.635	ug/L	99
69) Naphthalene	13.74	128	6533132	226.005	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	2094960	216.641	ug/L	98

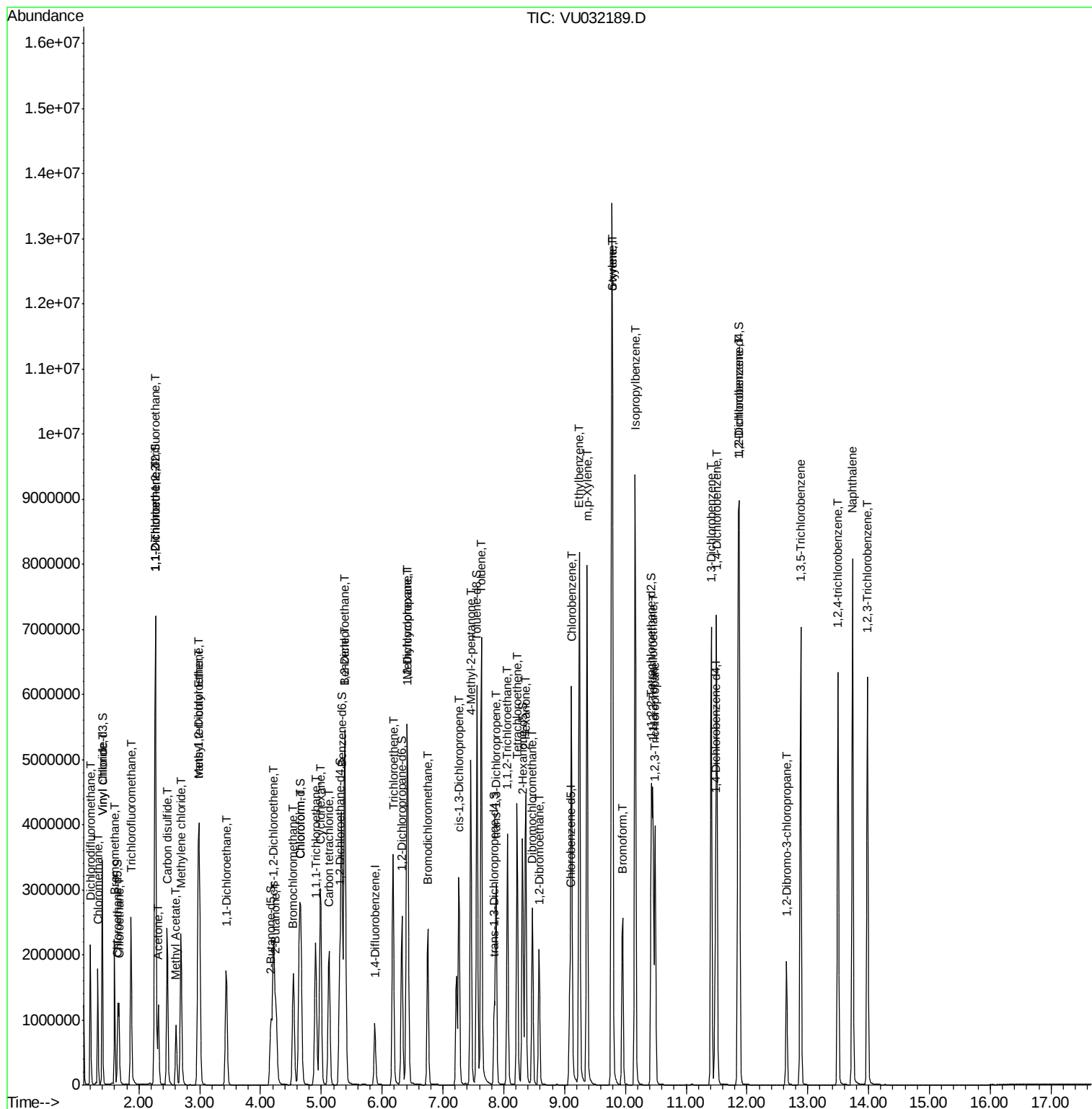
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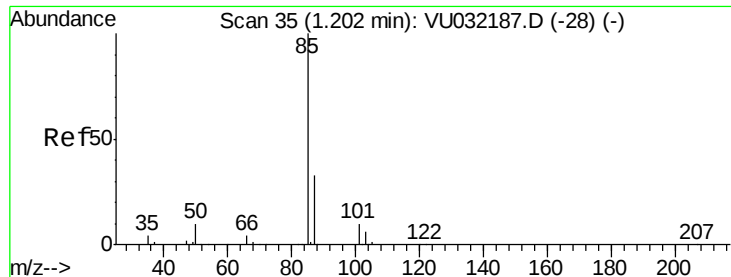
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#2

Dichlorodifluoromethane

Concen: 163.230 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU032189.D

Acq: 21 May 2019 10:54

Instrument :

MSVOA_U

ClientSampleId :

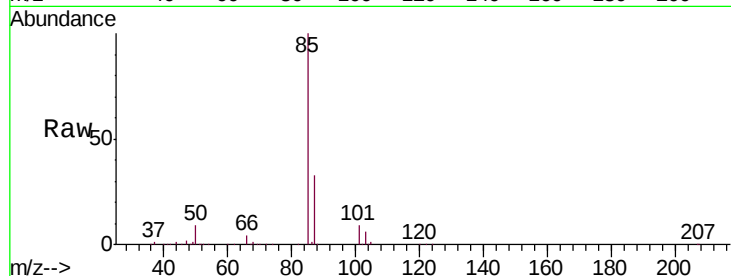
VSTD20055

Tgt Ion: 85 Resp: 1299531

Ion Ratio Lower Upper

85 100

87 32.6 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VU032189.D (-28) (-)

Ion 87.00 (86.70 to 87.70): VU032189.D (-28) (-)

1.20

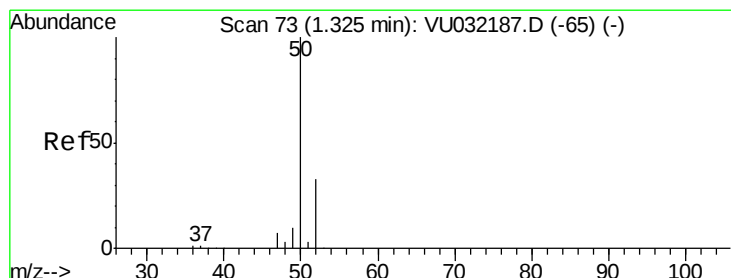
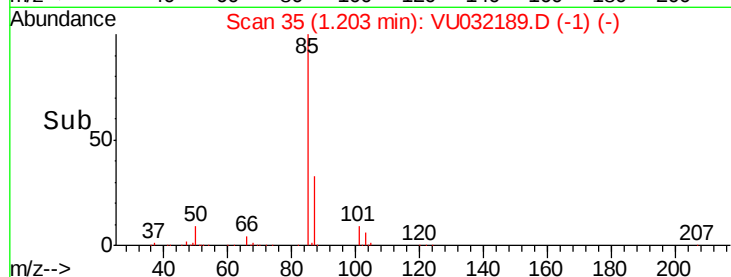
1000000

500000

0

Time-->

1.15 1.20 1.25 1.30



#3

Chloromethane

Concen: 130.181 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU032189.D

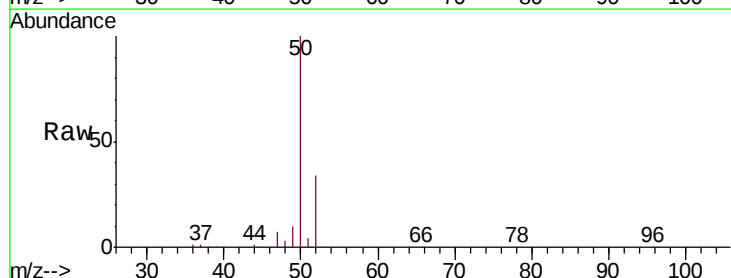
Acq: 21 May 2019 10:54

Tgt Ion: 50 Resp: 1115418

Ion Ratio Lower Upper

50 100

52 34.0 23.1 42.9



Abundance Ion 50.00 (49.70 to 50.70): VU032189.D (-65) (-)

Ion 52.00 (51.70 to 52.70): VU032189.D (-65) (-)

1.32

1200000

1000000

800000

600000

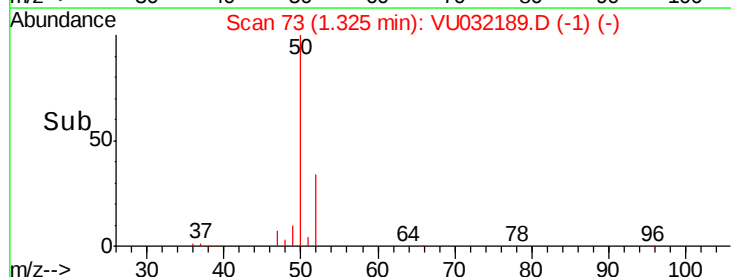
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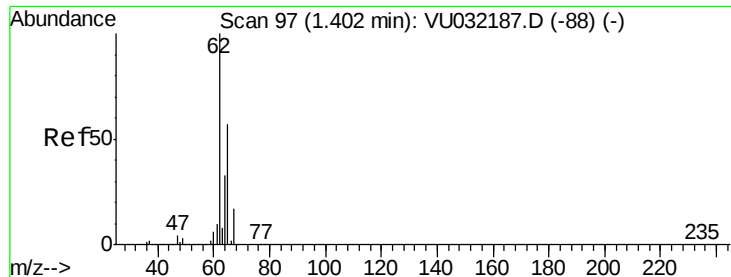
200000

0

Time-->

1.30 1.35 1.40





#5

Vinyl chloride

Concen: 140.291 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU032189.D

Acq: 21 May 2019 10:54

Instrument :

MSVOA_U

ClientSampleId :

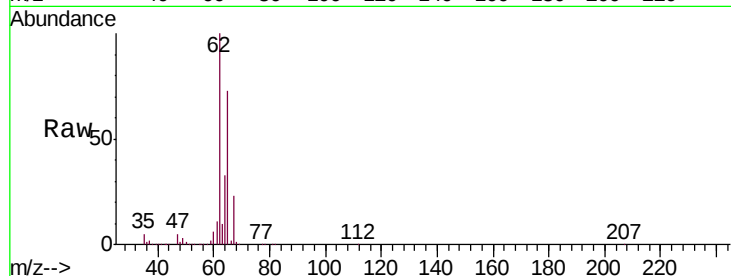
VSTD20055

Tgt Ion: 62 Resp: 1272653

Ion Ratio Lower Upper

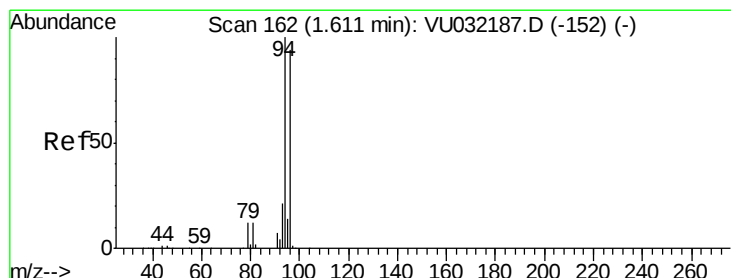
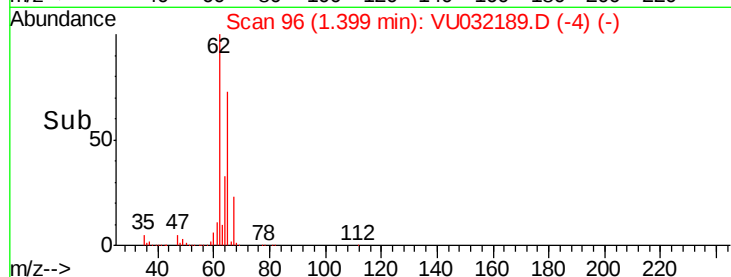
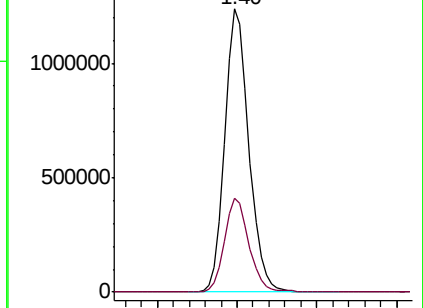
62 100

64 33.4 23.5 43.7



Abundance Ion 62.00 (61.70 to 62.70): VU032189.D (-88) (-)

Ion 64.00 (63.70 to 64.70): VU032189.D (-88) (-)



#6

Bromomethane

Concen: 153.830 ug/L

RT: 1.60 min Scan# 159

Delta R.T. -0.01 min

Lab File: VU032189.D

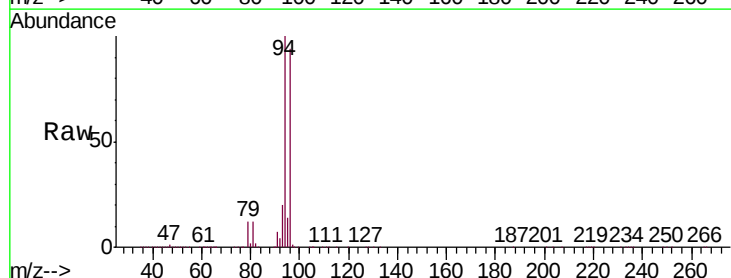
Acq: 21 May 2019 10:54

Tgt Ion: 94 Resp: 764324

Ion Ratio Lower Upper

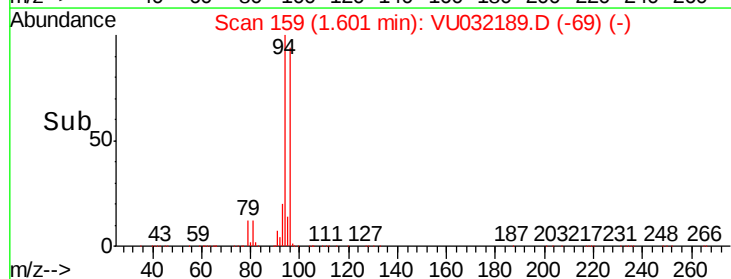
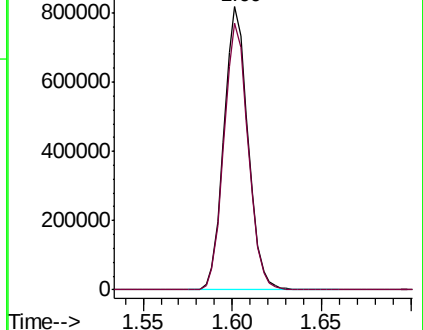
94 100

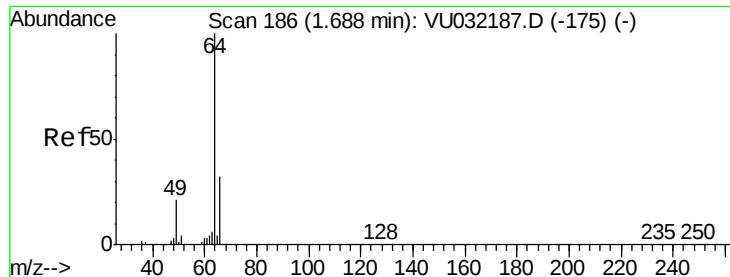
96 94.3 65.8 122.2



Abundance Ion 94.00 (93.70 to 94.70): VU032189.D (-152) (-)

Ion 96.00 (95.70 to 96.70): VU032189.D (-152) (-)





#8

Chloroethane

Concen: 139.814 ug/L

RT: 1.67 min Scan# 181

Delta R.T. -0.02 min

Lab File: VU032189.D

Acq: 21 May 2019 10:54

Instrument :

MSVOA_U

ClientSampleId :

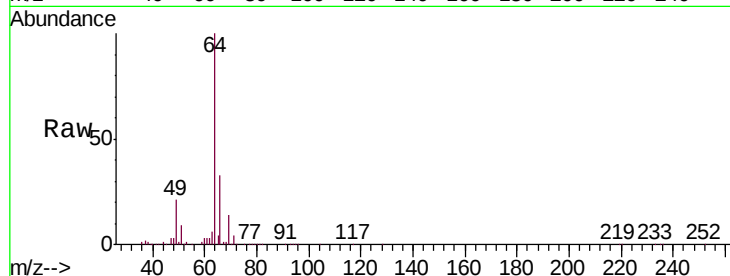
VSTD20055

Tgt Ion: 64 Resp: 752737

Ion Ratio Lower Upper

64 100

66 32.9 22.1 41.1



Abundance Ion 64.00 (63.70 to 64.70): VU032187.D (-175) (-)

Ion 66.00 (65.70 to 66.70): VU032187.D (-175) (-)

1.67

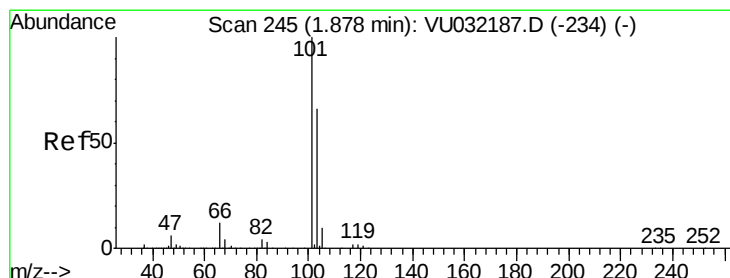
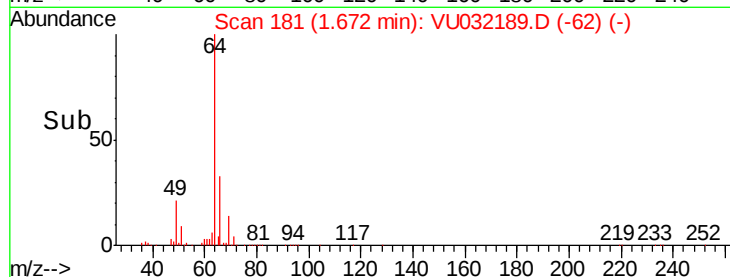
600000

400000

200000

0

Time--> 1.60 1.65 1.70 1.75



#9

Trichlorofluoromethane

Concen: 167.171 ug/L

RT: 1.87 min Scan# 243

Delta R.T. -0.01 min

Lab File: VU032189.D

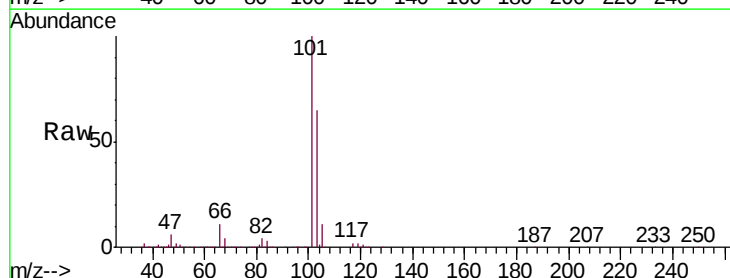
Acq: 21 May 2019 10:54

Tgt Ion: 101 Resp: 1777147

Ion Ratio Lower Upper

101 100

103 64.4 52.5 78.7



Abundance Ion 101.00 (100.70 to 101.70): VU032187.D (-234) (-)

Ion 103.00 (102.70 to 103.70): VU032187.D (-234) (-)

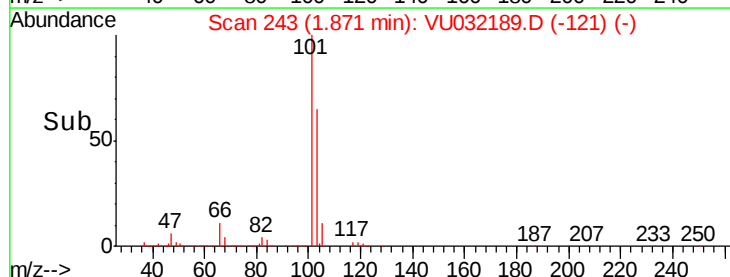
1.87

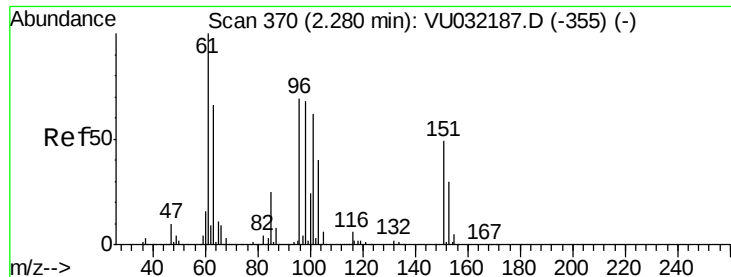
1000000

500000

0

Time--> 1.80 1.90 2.00





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 163.913 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.01 min

Lab File: VU032189.D

Acq: 21 May 2019 10:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD20055

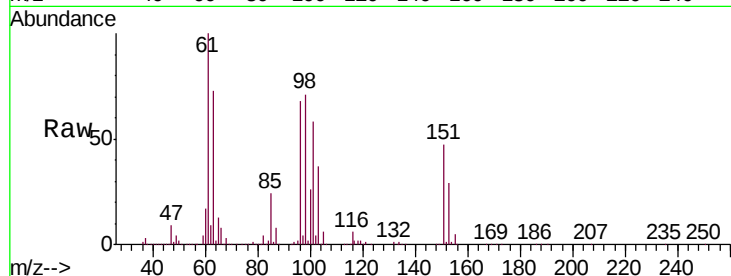
Tgt Ion:101 Resp: 1062765

Ion Ratio Lower Upper

101 100

85 41.0 32.5 48.7

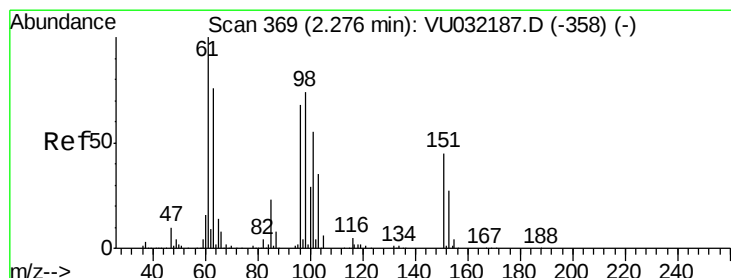
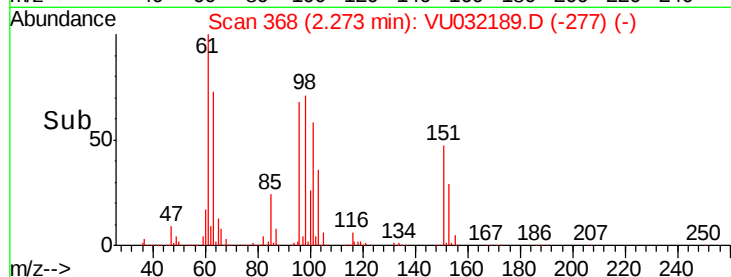
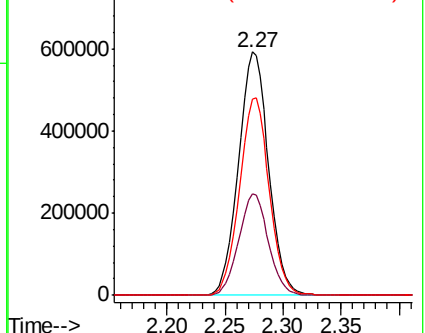
151 80.3 63.1 94.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 167.604 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.00 min

Lab File: VU032189.D

Acq: 21 May 2019 10:54

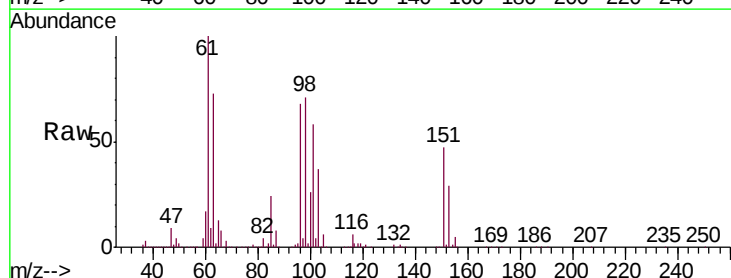
Tgt Ion: 96 Resp: 1077072

Ion Ratio Lower Upper

96 100

61 146.1 103.7 192.7

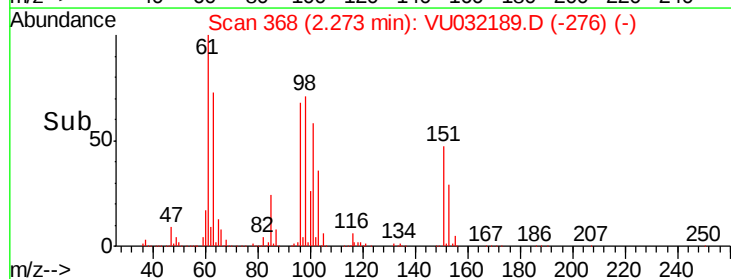
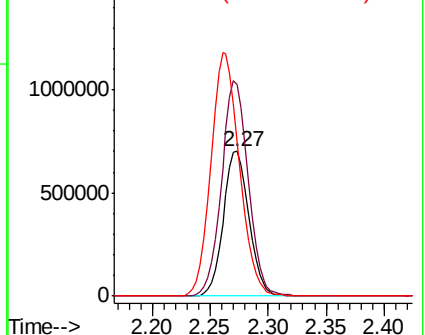
63 106.8 83.3 154.7

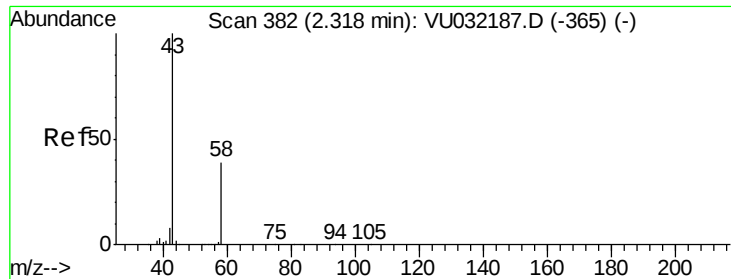


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 223.996 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

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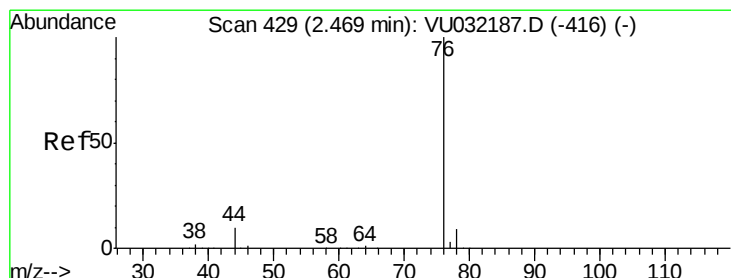
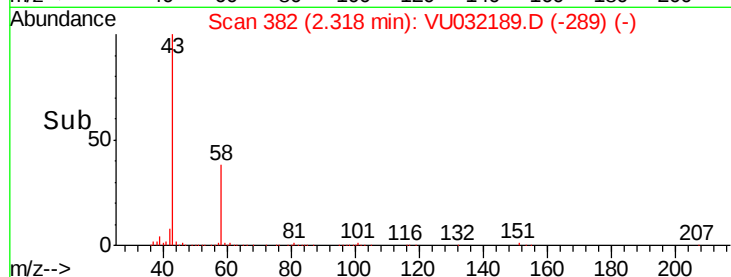
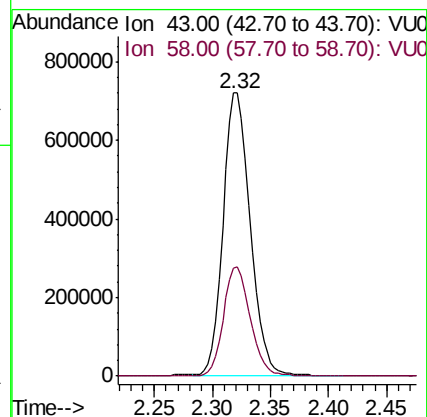
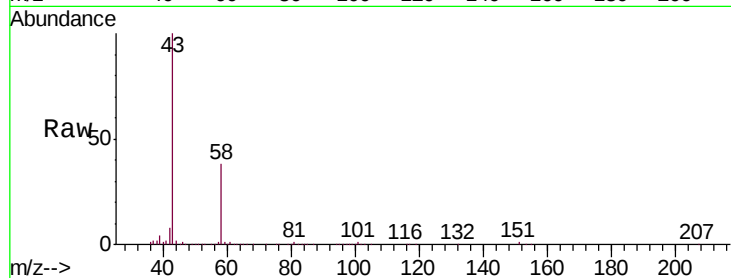
VSTD20055

Tgt Ion: 43 Resp: 1169019

Ion Ratio Lower Upper

43 100

58 38.0 0.0 76.8



#14

Carbon disulfide

Concen: 154.198 ug/L

RT: 2.47 min Scan# 428

Delta R.T. -0.00 min

Lab File: VU032189.D

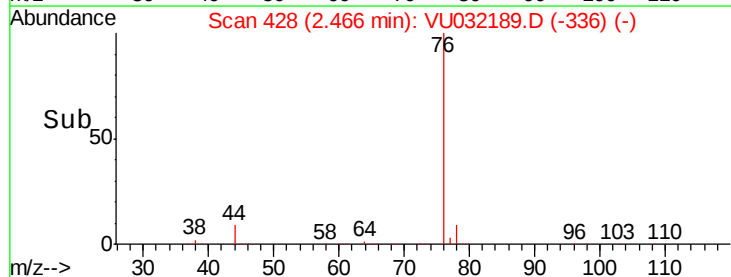
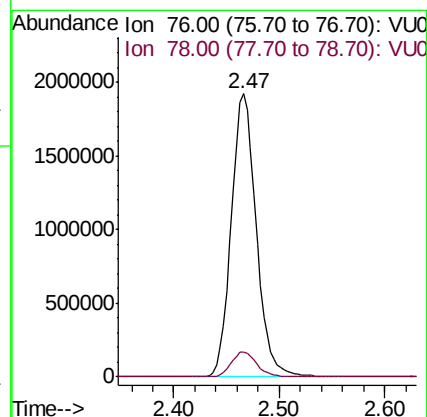
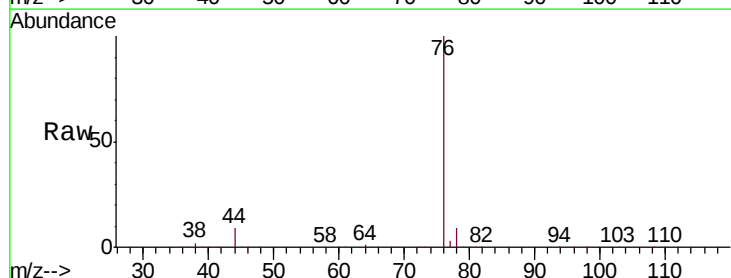
Acq: 21 May 2019 10:54

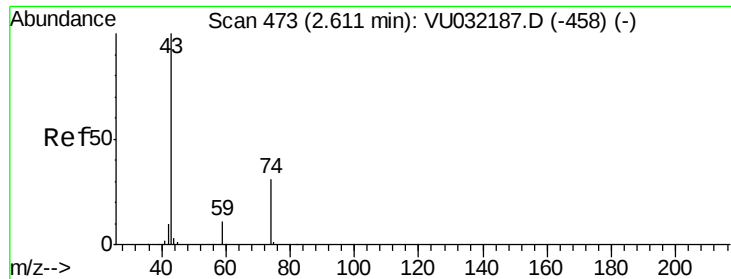
Tgt Ion: 76 Resp: 3146991

Ion Ratio Lower Upper

76 100

78 9.0 7.4 11.0

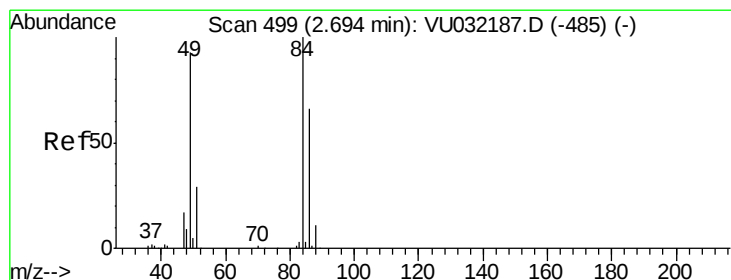
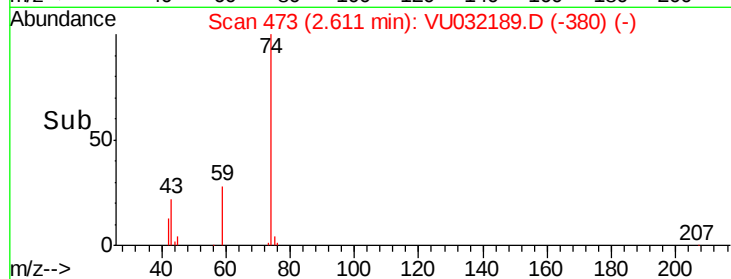
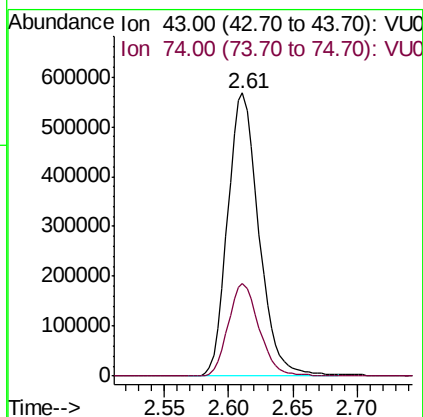
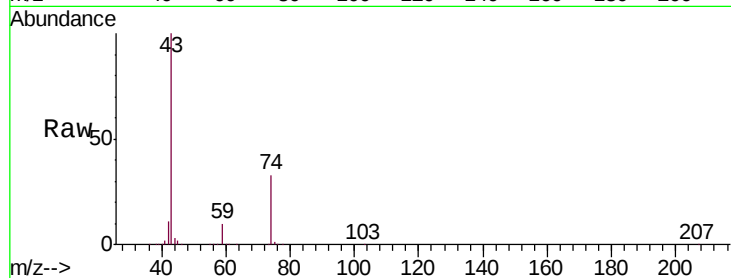




#15
Methyl Acetate
Concen: 121.318 ug/L
RT: 2.61 min Scan# 473
Delta R.T. 0.00 min
Lab File: VU032189.D
Acq: 21 May 2019 10:54

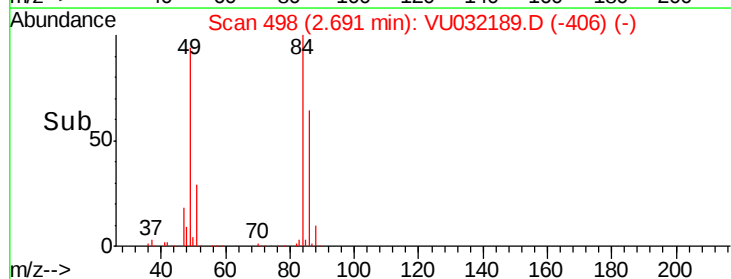
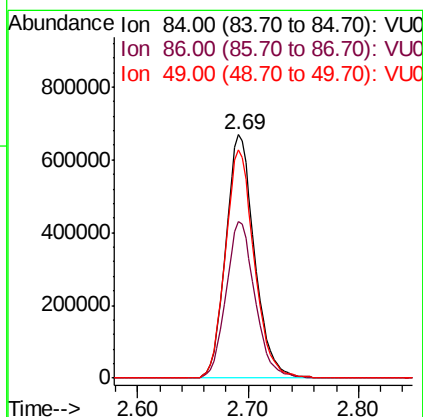
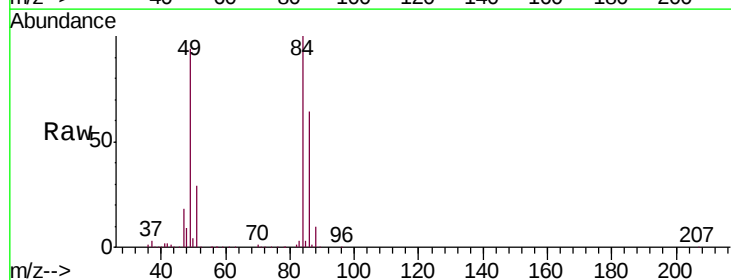
Instrument :
MSVOA_U
ClientSampleId :
VSTD20055

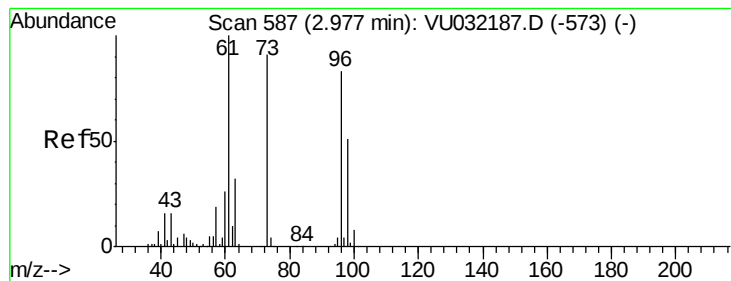
Tgt Ion: 43 Resp: 953282
Ion Ratio Lower Upper
43 100
74 32.5 25.4 38.0



#16
Methylene chloride
Concen: 155.864 ug/L
RT: 2.69 min Scan# 498
Delta R.T. -0.00 min
Lab File: VU032189.D
Acq: 21 May 2019 10:54

Tgt Ion: 84 Resp: 1207595
Ion Ratio Lower Upper
84 100
86 64.2 46.0 85.4
49 93.7 64.8 120.4





#17

trans-1,2-Dichloroethene

Concen: 169.845 ug/L

RT: 2.97 min Scan# 585

Delta R.T. -0.01 min

Lab File: VU032189.D

Acq: 21 May 2019 10:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD20055

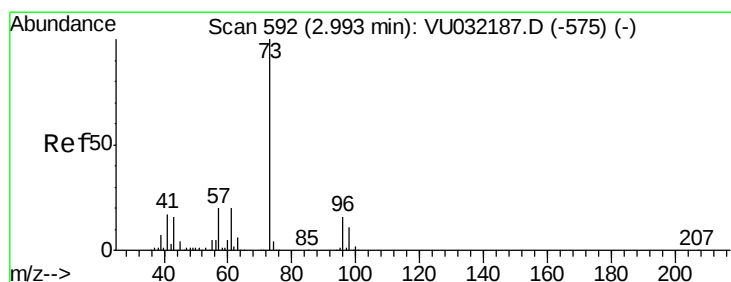
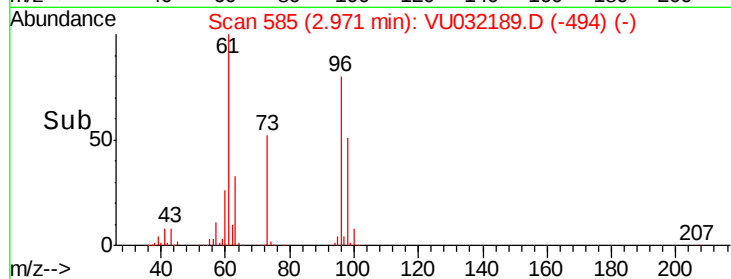
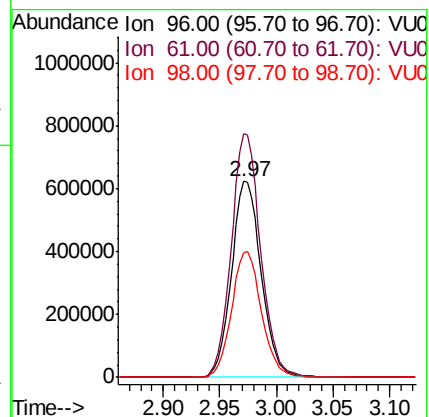
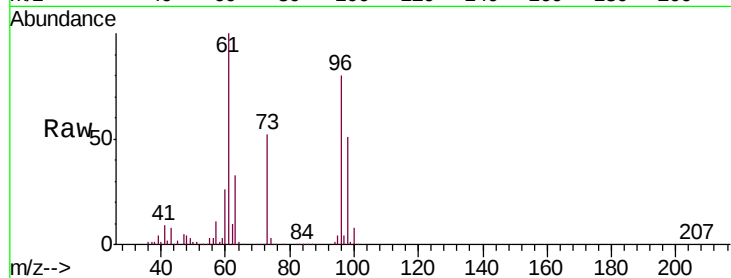
Tgt Ion: 96 Resp: 1135383

Ion Ratio Lower Upper

96 100

61 124.3 83.9 155.9

98 63.4 42.4 78.8



#18

Methyl tert-butyl Ether

Concen: 167.887 ug/L

RT: 2.99 min Scan# 592

Delta R.T. 0.00 min

Lab File: VU032189.D

Acq: 21 May 2019 10:54

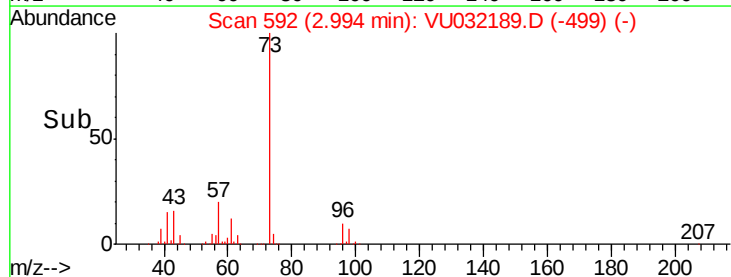
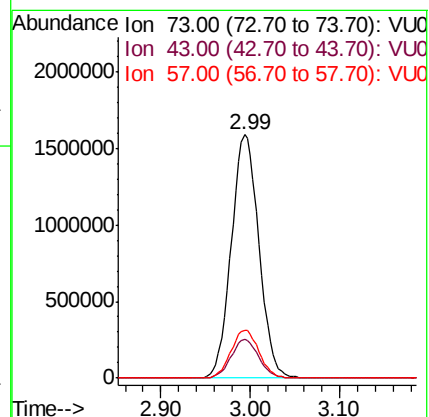
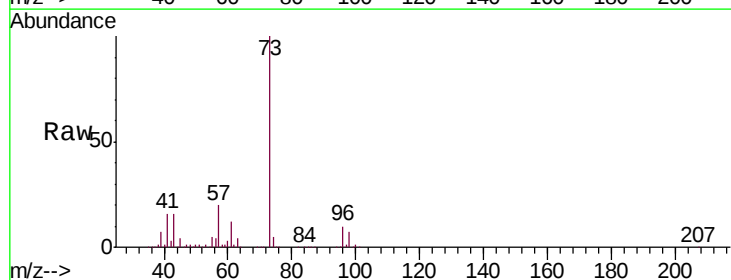
Tgt Ion: 73 Resp: 3401040

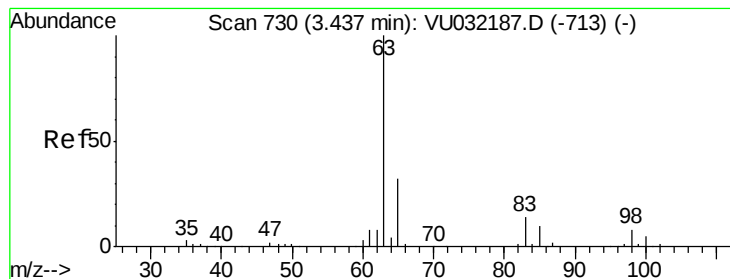
Ion Ratio Lower Upper

73 100

43 15.8 13.0 19.6

57 20.0 16.1 24.1





#19

1,1-Dichloroethane

Concen: 147.320 ug/L

RT: 3.44 min Scan# 730

Delta R.T. 0.00 min

Lab File: VU032189.D

Acq: 21 May 2019 10:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD20055

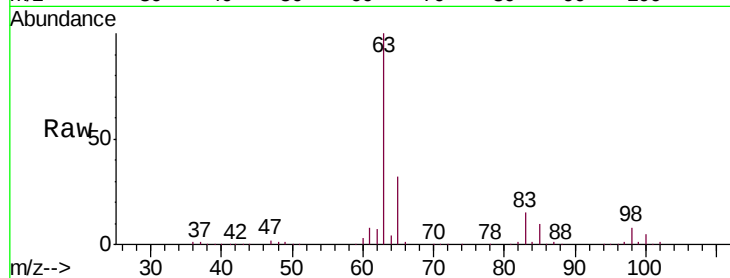
Tgt Ion: 63 Resp: 1883853

Ion Ratio Lower Upper

63 100

65 31.8 22.4 41.6

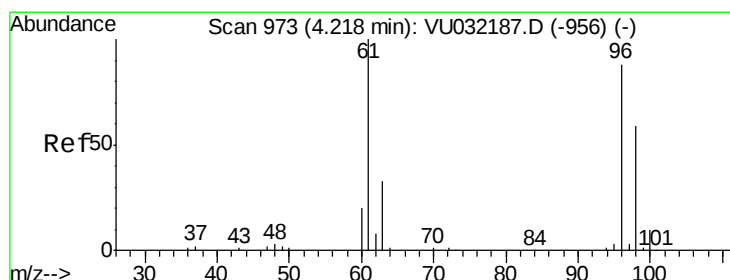
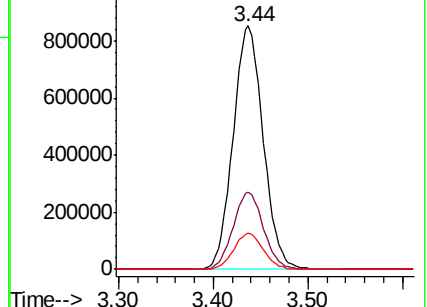
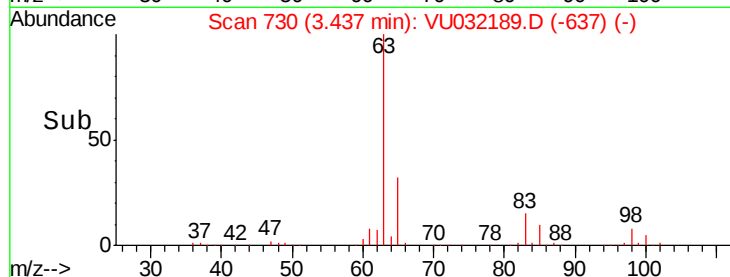
83 14.8 10.1 18.7



Abundance Ion 63.00 (62.70 to 63.70): VU032189.D (-637) (-)

Ion 65.00 (64.70 to 65.70): VU032189.D (-637) (-)

Ion 83.00 (82.70 to 83.70): VU032189.D (-637) (-)



#20

cis-1,2-Dichloroethene

Concen: 179.030 ug/L

RT: 4.22 min Scan# 972

Delta R.T. -0.00 min

Lab File: VU032189.D

Acq: 21 May 2019 10:54

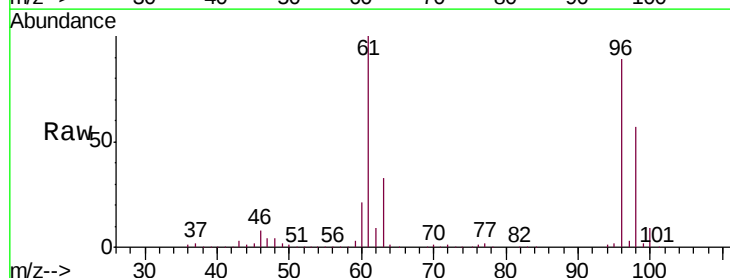
Tgt Ion: 96 Resp: 1318608

Ion Ratio Lower Upper

96 100

61 112.4 79.9 148.3

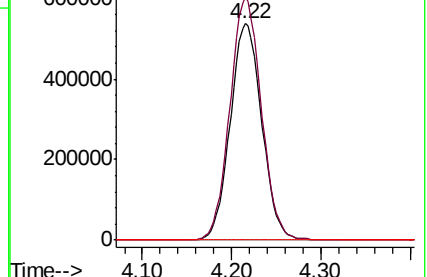
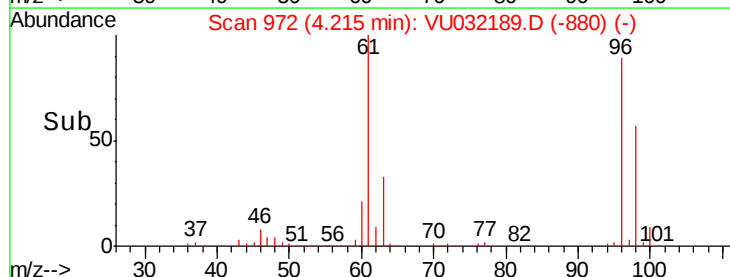
68 0.0 0.0 0.0

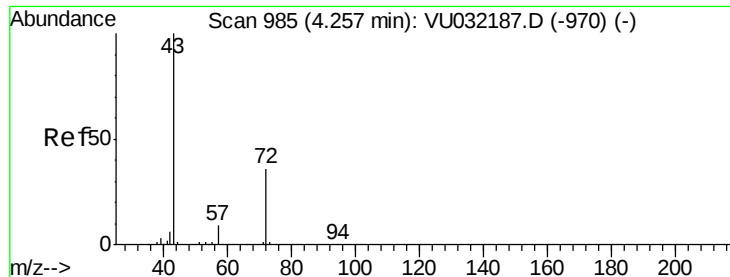


Abundance Ion 96.00 (95.70 to 96.70): VU032189.D (-880) (-)

Ion 61.00 (60.70 to 61.70): VU032189.D (-880) (-)

Ion 68.00 (67.70 to 68.70): VU032189.D (-880) (-)





#22

2-Butanone

Concen: 267.790 ug/L

RT: 4.25 min Scan# 984

Delta R.T. -0.00 min

Lab File: VU032189.D

Acq: 21 May 2019 10:54

Instrument :

MSVOA_U

ClientSampleId :

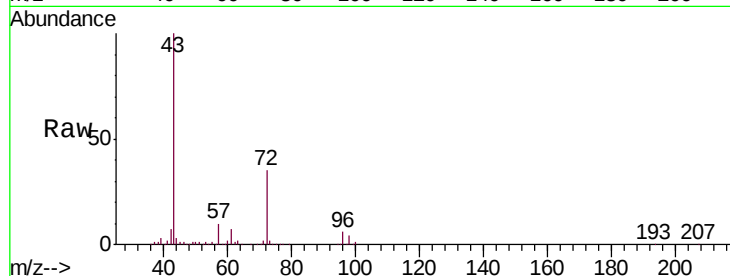
VSTD20055

Tgt Ion: 43 Resp: 1591376

Ion Ratio Lower Upper

43 100

72 37.1 17.8 53.3



Abundance Ion 43.00 (42.70 to 43.70): VU032187.D (-970) (-)

Ion 72.00 (71.70 to 72.70): VU032187.D (-970) (-)

4.25

600000

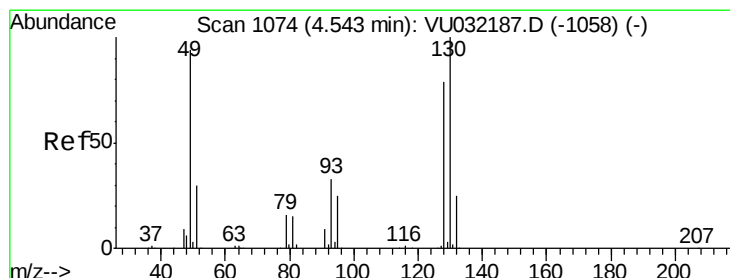
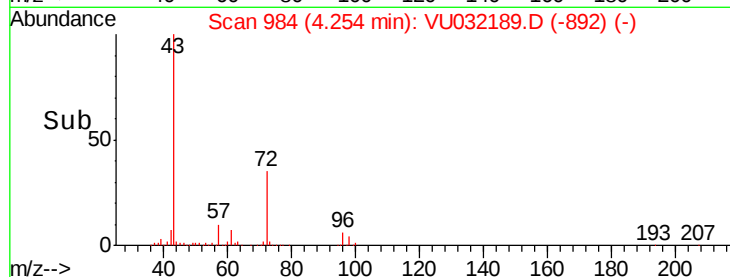
400000

200000

0

Time-->

4.10 4.20 4.30 4.40



#23

Bromochloromethane

Concen: 182.682 ug/L

RT: 4.54 min Scan# 1073

Delta R.T. -0.00 min

Lab File: VU032189.D

Acq: 21 May 2019 10:54

Tgt Ion: 128 Resp: 673792

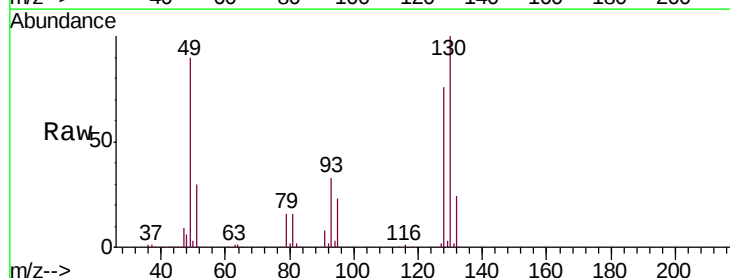
Ion Ratio Lower Upper

128 100

49 117.5 83.5 155.1

130 131.1 89.2 165.6

51 39.1 30.9 46.3



Abundance Ion 128.00 (127.70 to 128.70): VU032187.D (-1058) (-)

Ion 49.00 (48.70 to 49.70): VU032187.D (-1058) (-)

Ion 130.00 (129.70 to 130.70): VU032187.D (-1058) (-)

Ion 51.00 (50.70 to 51.70): VU032187.D (-1058) (-)

600000

500000

400000

300000

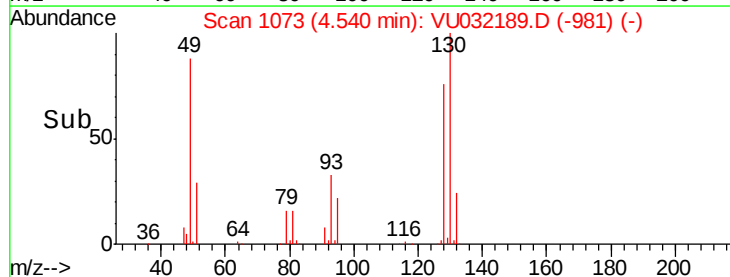
200000

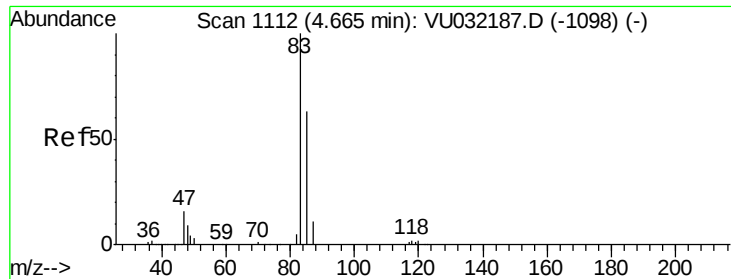
100000

0

Time-->

4.50 4.54 4.58





#25

Chloroform

Concen: 160.337 ug/L

RT: 4.67 min Scan# 1112

Delta R.T. 0.00 min

Lab File: VU032189.D

Acq: 21 May 2019 10:54

Instrument :

MSVOA_U

ClientSampleId :

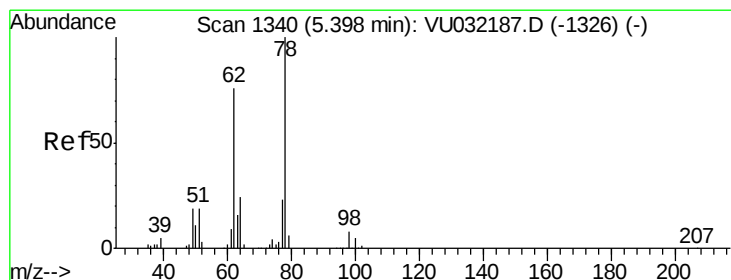
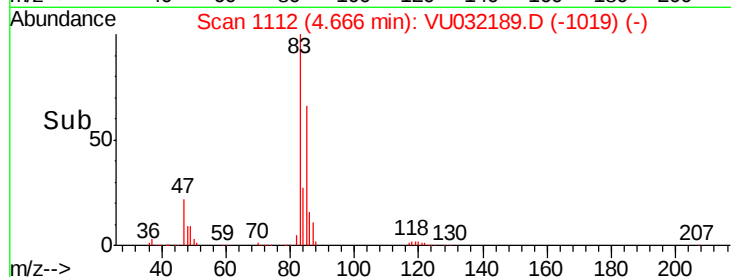
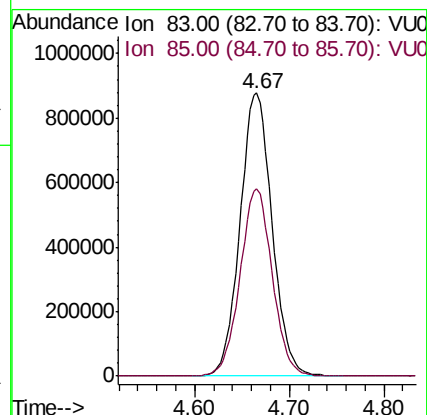
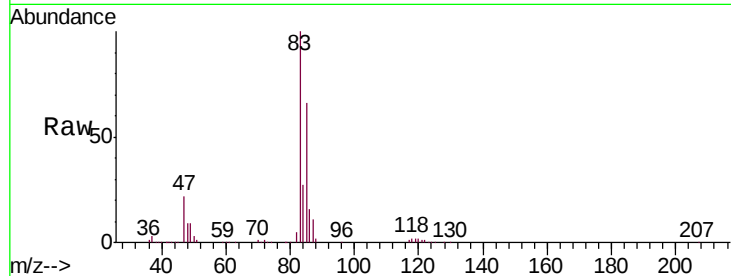
VSTD20055

Tgt Ion: 83 Resp: 2066288

Ion Ratio Lower Upper

83 100

85 66.1 45.3 84.1



#27

1,2-Dichloroethane

Concen: 155.653 ug/L

RT: 5.40 min Scan# 1339

Delta R.T. -0.00 min

Lab File: VU032189.D

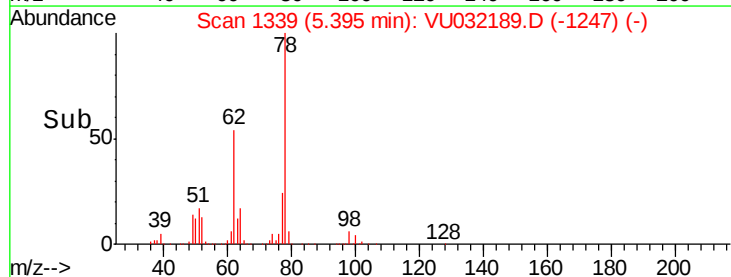
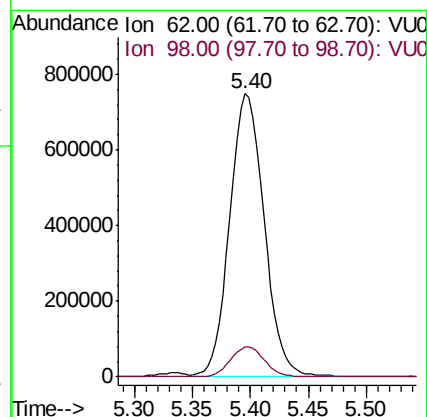
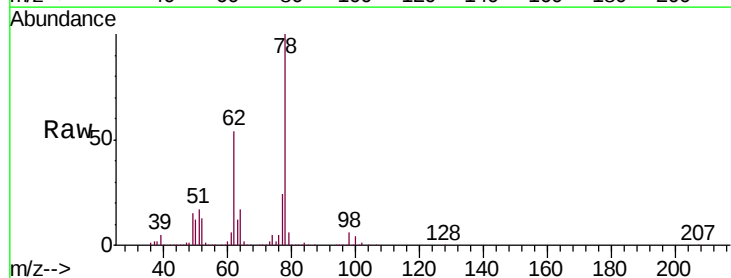
Acq: 21 May 2019 10:54

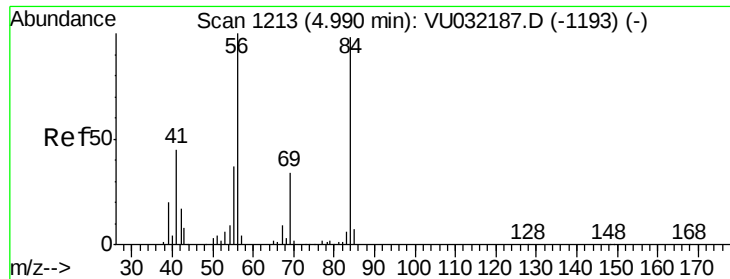
Tgt Ion: 62 Resp: 1534233

Ion Ratio Lower Upper

62 100

98 10.6 8.2 12.2

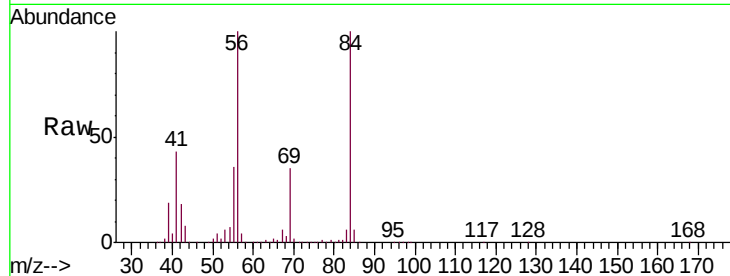




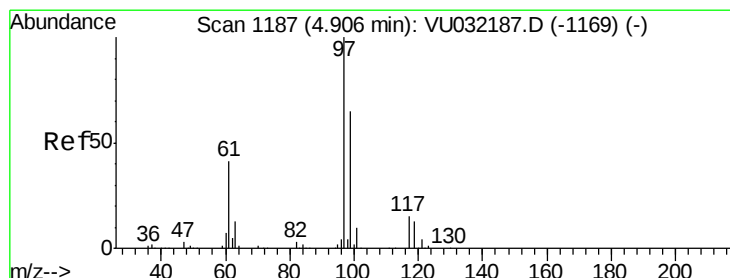
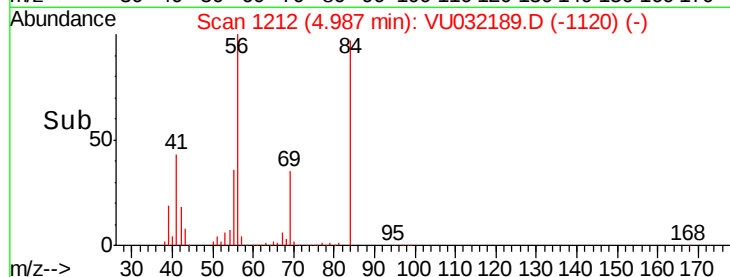
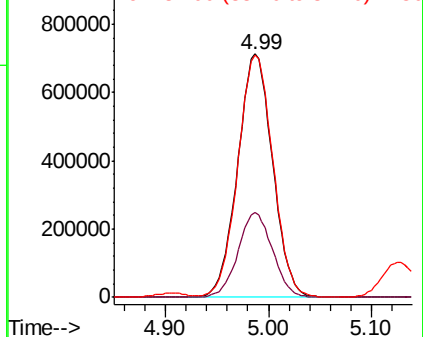
#29
Cyclohexane
Concen: 157.660 ug/L
RT: 4.99 min Scan# 1212
Delta R.T. -0.00 min
Lab File: VU032189.D
Acq: 21 May 2019 10:54

Instrument :
MSVOA_U
ClientSampleId :
VSTD20055

Tgt Ion: 56 Resp: 1677834
Ion Ratio Lower Upper
56 100
69 34.5 27.6 41.4
84 100.0 79.3 118.9

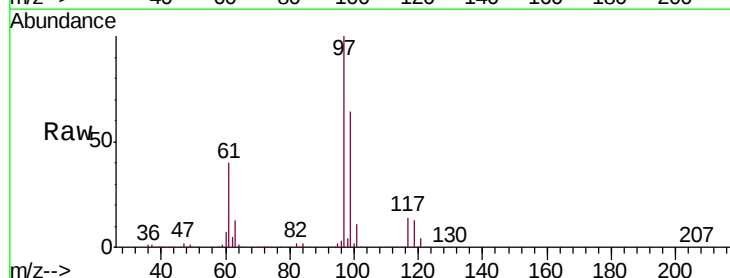


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

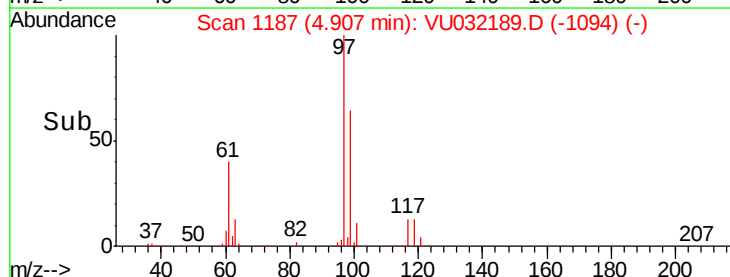
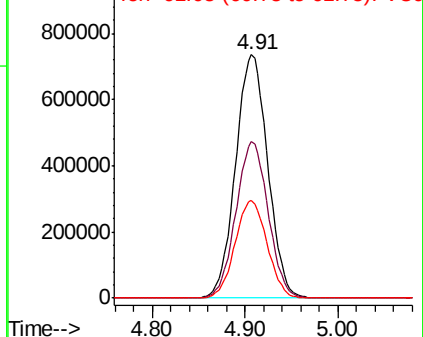


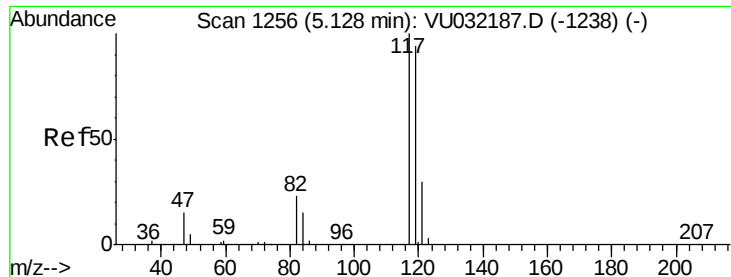
#30
1,1,1-Trichloroethane
Concen: 169.367 ug/L
RT: 4.91 min Scan# 1187
Delta R.T. 0.00 min
Lab File: VU032189.D
Acq: 21 May 2019 10:54

Tgt Ion: 97 Resp: 1772063
Ion Ratio Lower Upper
97 100
99 64.4 51.4 77.2
61 40.0 33.4 50.0



Abundance Ion 97.00 (96.70 to 97.70): VU0
Ion 99.00 (98.70 to 99.70): VU0
Ion 61.05 (60.75 to 61.75): VU0





#31

Carbon tetrachloride

Concen: 177.491 ug/L

RT: 5.13 min Scan# 1255

Delta R.T. -0.00 min

Lab File: VU032189.D

Acq: 21 May 2019 10:54

Instrument :

MSVOA_U

ClientSampleId :

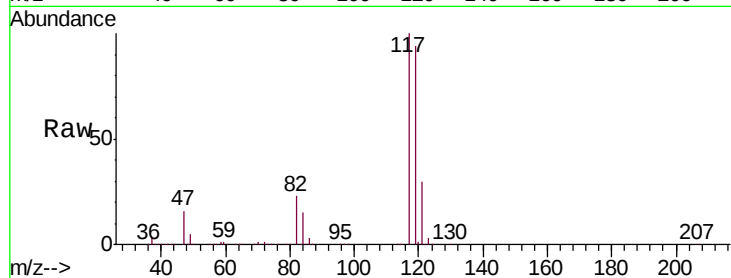
VSTD20055

Tgt Ion:117 Resp: 1567575

Ion Ratio Lower Upper

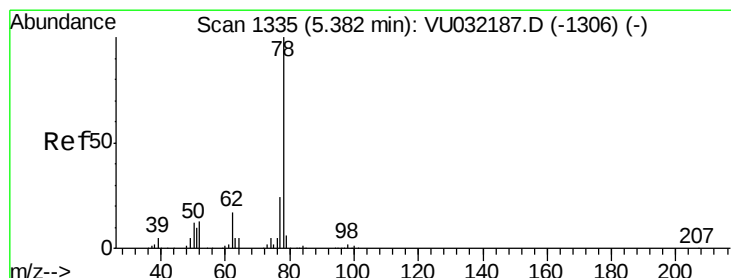
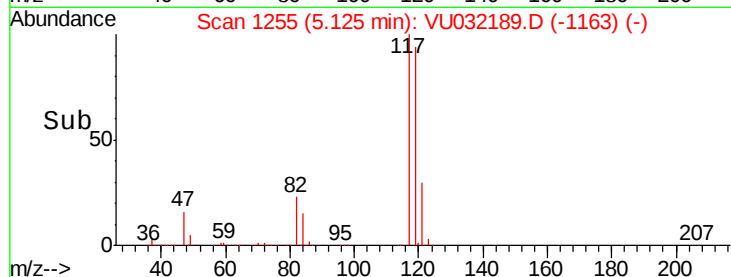
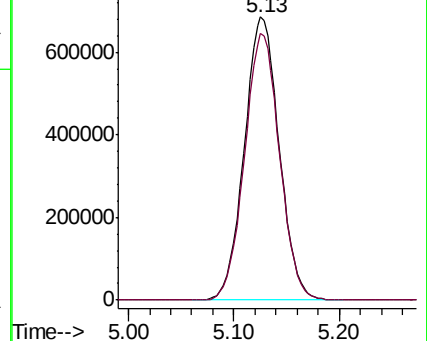
117 100

119 94.7 75.4 113.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 162.146 ug/L

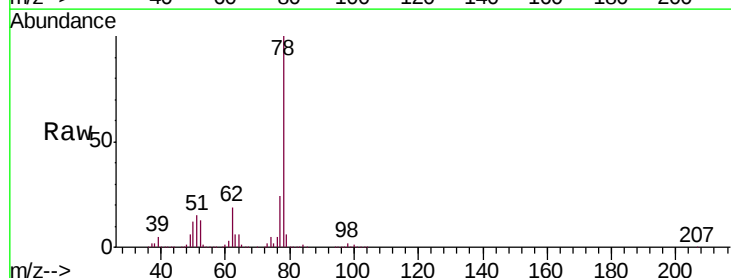
RT: 5.38 min Scan# 1335

Delta R.T. 0.00 min

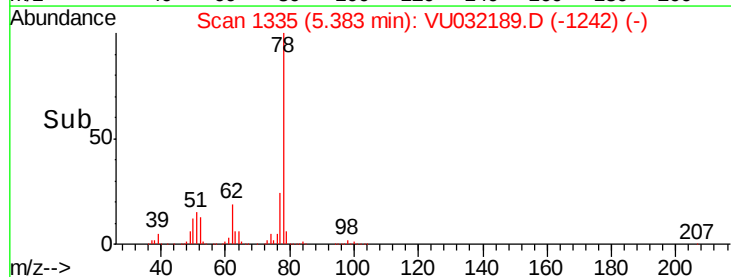
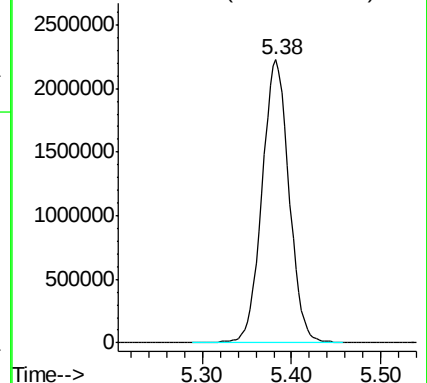
Lab File: VU032189.D

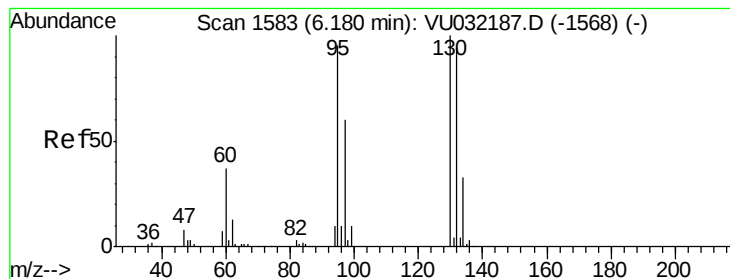
Acq: 21 May 2019 10:54

Tgt Ion: 78 Resp: 4711682



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 172.738 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VU032189.D

Acq: 21 May 2019 10:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD20055

Tgt Ion: 95 Resp: 1262701

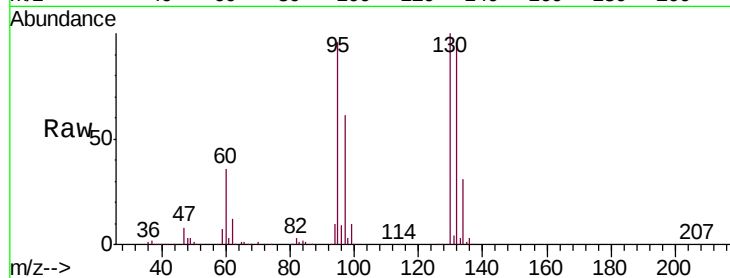
Ion Ratio Lower Upper

95 100

97 63.8 44.5 82.7

132 99.9 69.4 129.0

130 104.1 73.8 137.0

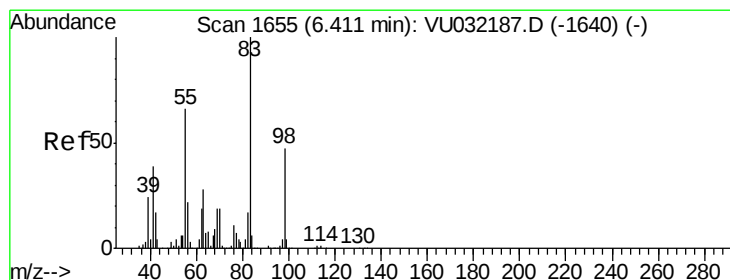
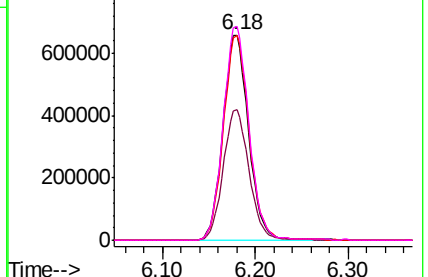
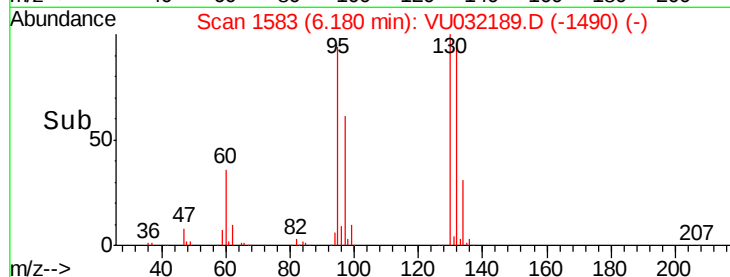


Abundance Ion 95.00 (94.70 to 95.70): VU032189.D (-1568) (-)

Ion 97.00 (96.70 to 97.70): VU032189.D (-1568) (-)

Ion 132.00 (131.70 to 132.70): VU032189.D (-1568) (-)

Ion 130.00 (129.70 to 130.70): VU032189.D (-1568) (-)



#35

Methylcyclohexane

Concen: 180.982 ug/L

RT: 6.41 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VU032189.D

Acq: 21 May 2019 10:54

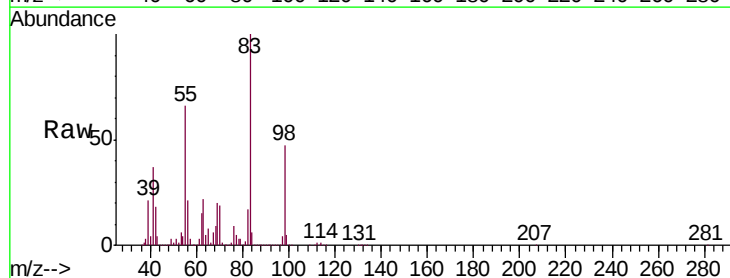
Tgt Ion: 83 Resp: 2014647

Ion Ratio Lower Upper

83 100

55 66.5 53.8 80.8

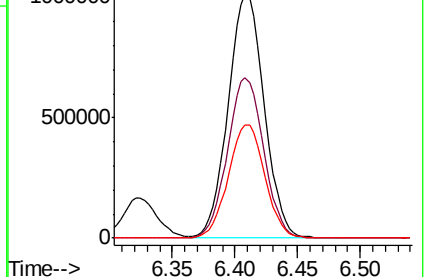
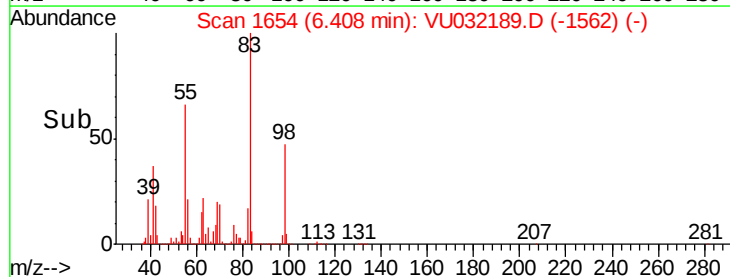
98 47.2 38.4 57.6

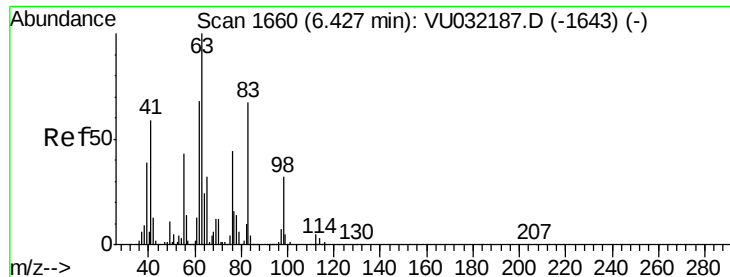


Abundance Ion 83.00 (82.70 to 83.70): VU032189.D (-1562) (-)

Ion 55.00 (54.70 to 55.70): VU032189.D (-1562) (-)

Ion 98.00 (97.70 to 98.70): VU032189.D (-1562) (-)

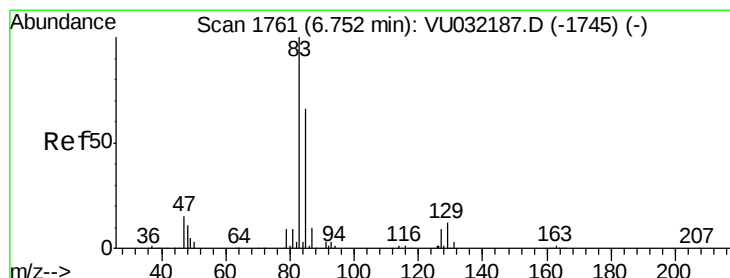
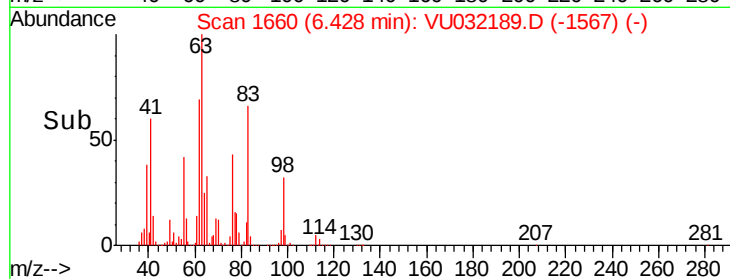
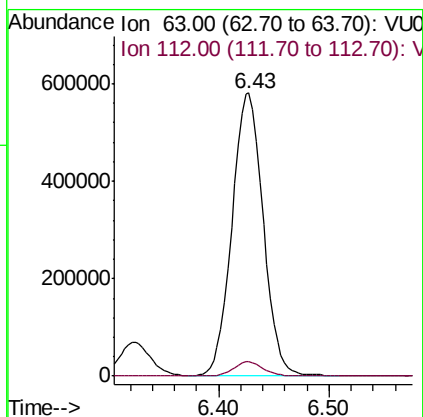
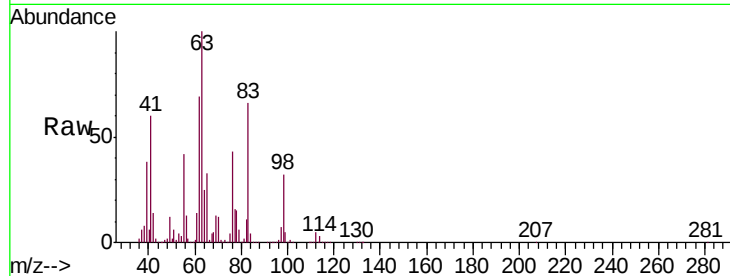




#37
 1,2-Dichloropropane
 Concen: 147.556 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. 0.00 min
 Lab File: VU032189.D
 Acq: 21 May 2019 10:54

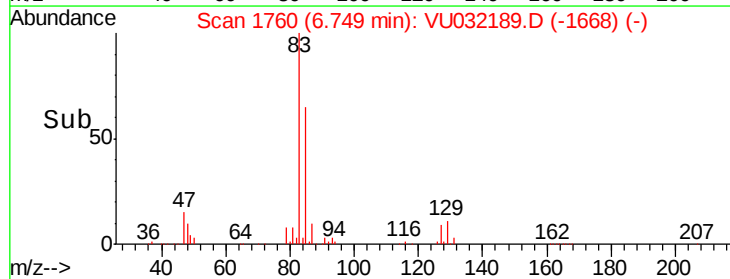
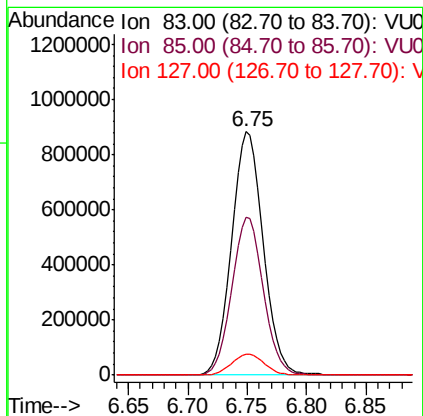
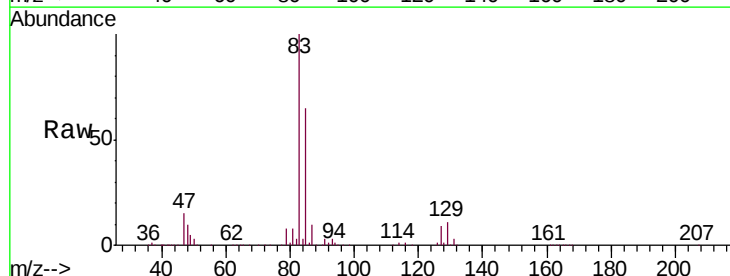
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20055

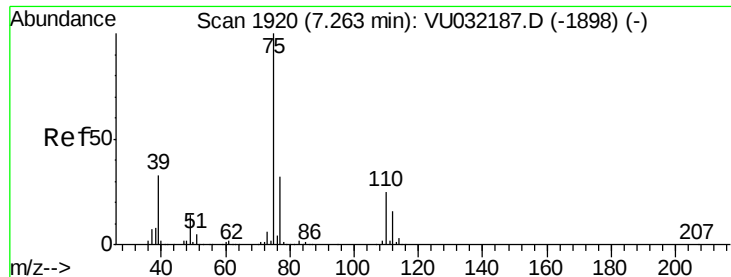
Tgt Ion: 63 Resp: 1133731
 Ion Ratio Lower Upper
 63 100
 112 4.9 3.8 5.6



#38
 Bromodichloromethane
 Concen: 168.674 ug/L
 RT: 6.75 min Scan# 1760
 Delta R.T. -0.00 min
 Lab File: VU032189.D
 Acq: 21 May 2019 10:54

Tgt Ion: 83 Resp: 1625394
 Ion Ratio Lower Upper
 83 100
 85 64.6 46.0 85.4
 127 8.8 7.5 11.3

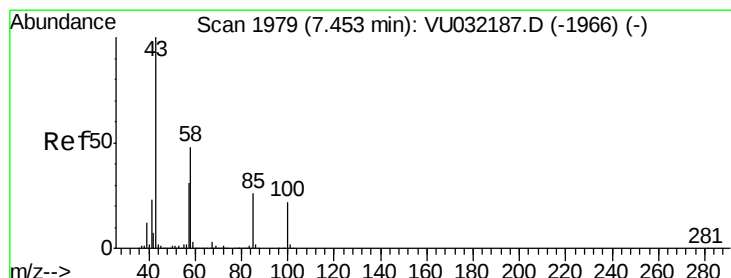
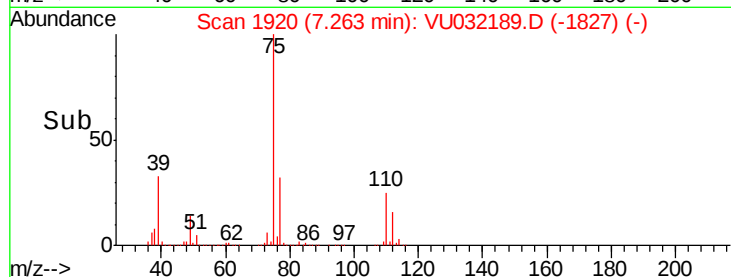
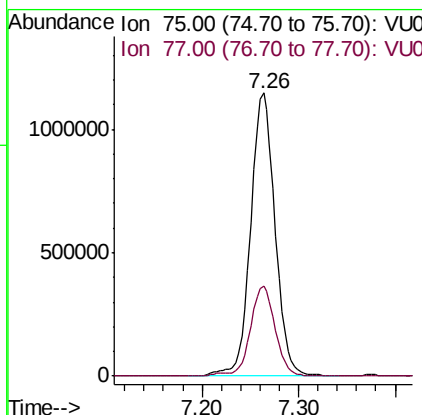
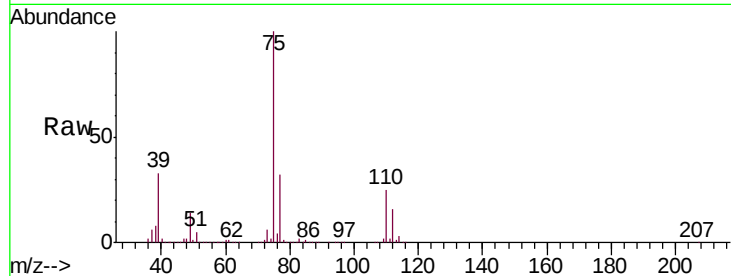




#39
 cis-1,3-Dichloropropene
 Concen: 182.023 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. 0.00 min
 Lab File: VU032189.D
 Acq: 21 May 2019 10:54

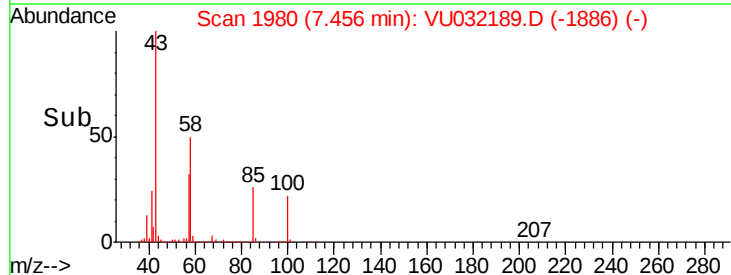
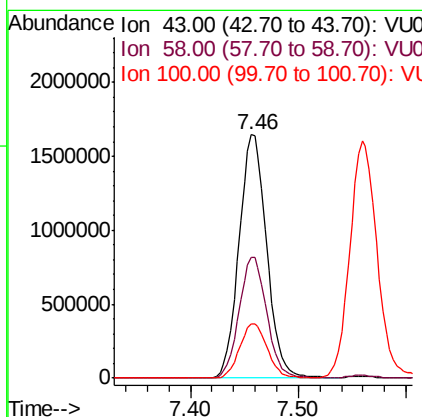
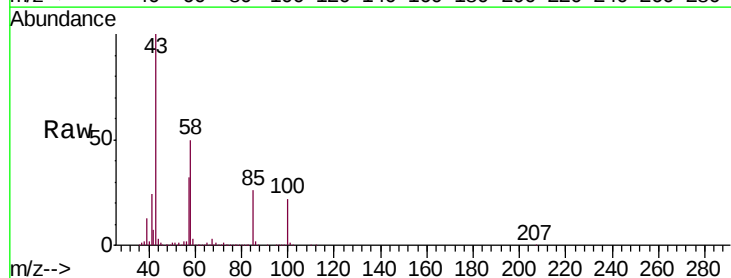
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20055

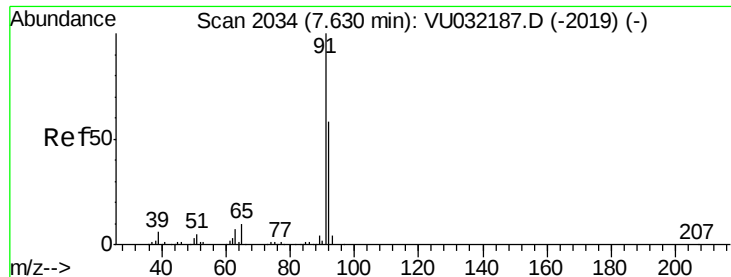
Tgt Ion: 75 Resp: 2012991
 Ion Ratio Lower Upper
 75 100
 77 31.8 22.2 41.2



#40
 4-Methyl-2-pentanone
 Concen: 290.504 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. 0.00 min
 Lab File: VU032189.D
 Acq: 21 May 2019 10:54

Tgt Ion: 43 Resp: 2945138
 Ion Ratio Lower Upper
 43 100
 58 49.6 38.6 58.0
 100 22.3 17.9 26.9





#42

Toluene

Concen: 182.292 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU032189.D

Acq: 21 May 2019 10:54

Instrument :

MSVOA_U

ClientSampleId :

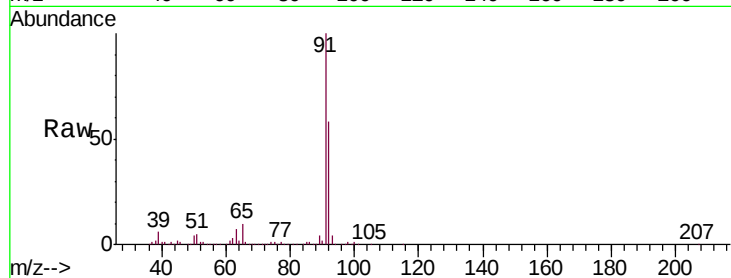
VSTD20055

Tgt Ion: 91 Resp: 5498709

Ion Ratio Lower Upper

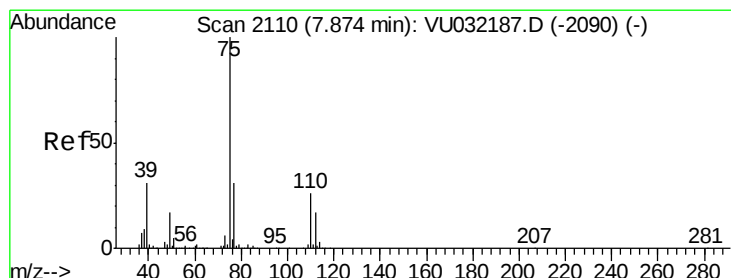
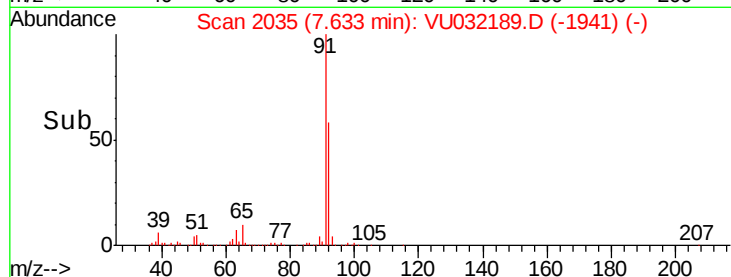
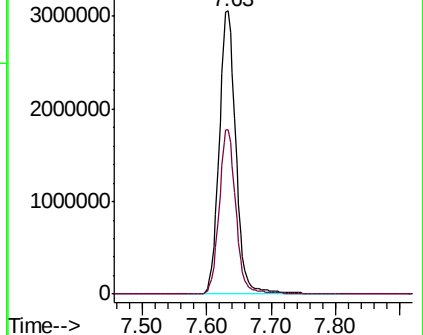
91 100

92 58.2 40.6 75.4



Abundance Ion 91.00 (90.70 to 91.70): VU032189.D (-2019) (-)

Ion 92.00 (91.70 to 92.70): VU032189.D (-2019) (-)



#44

trans-1,3-Dichloropropene

Concen: 184.739 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. 0.00 min

Lab File: VU032189.D

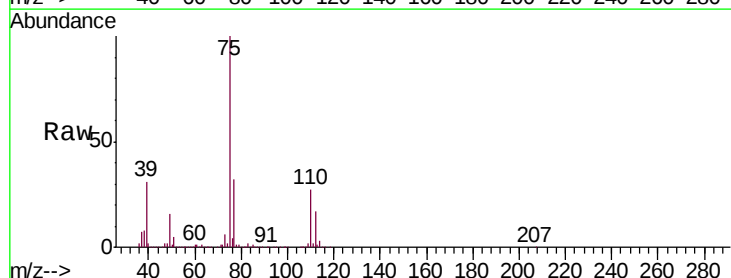
Acq: 21 May 2019 10:54

Tgt Ion: 75 Resp: 1799323

Ion Ratio Lower Upper

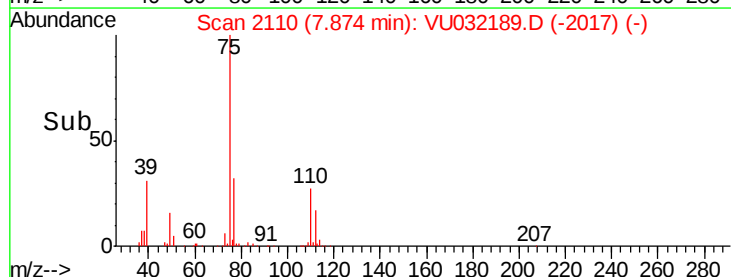
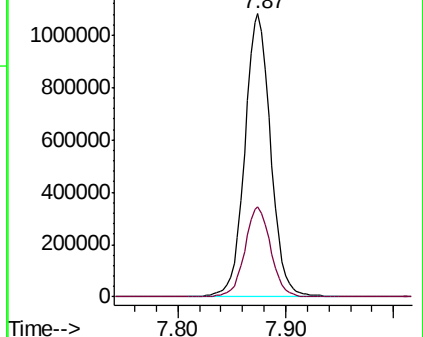
75 100

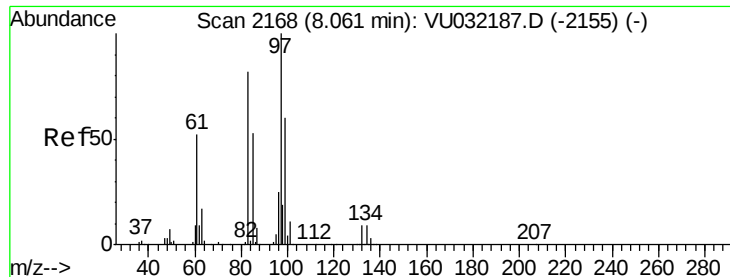
77 31.7 21.8 40.4



Abundance Ion 75.00 (74.70 to 75.70): VU032189.D (-2019) (-)

Ion 77.00 (76.70 to 77.70): VU032189.D (-2019) (-)

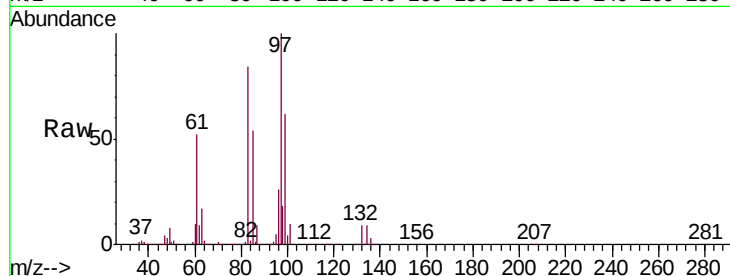




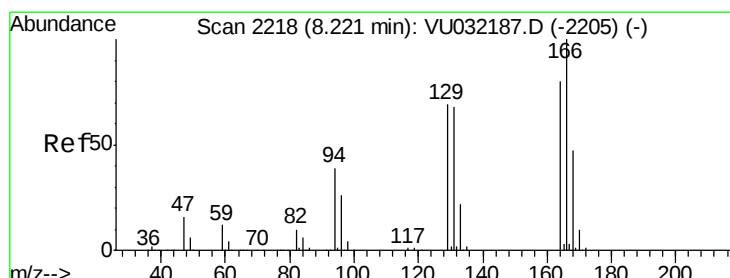
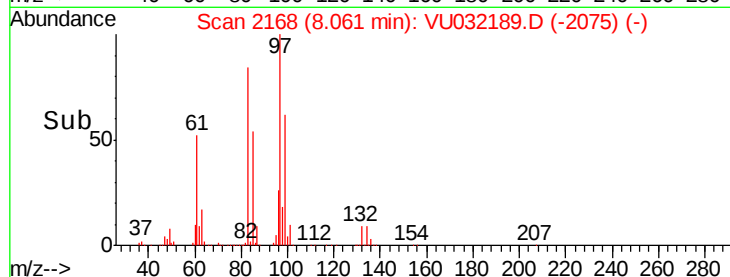
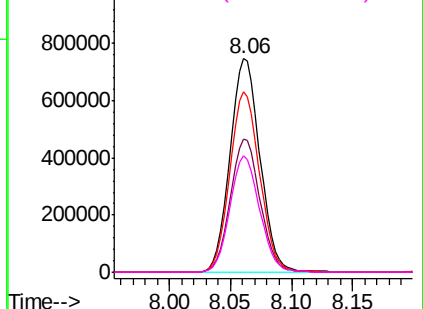
#45
 1,1,2-Trichloroethane
 Concen: 175.663 ug/L
 RT: 8.06 min Scan# 2168
 Delta R.T. 0.00 min
 Lab File: VU032189.D
 Acq: 21 May 2019 10:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20055

Tgt Ion:	97	Resp:	1279907
Ion	Ratio	Lower	Upper
97	100		
99	62.5	41.8	77.6
83	84.4	57.3	106.3
85	54.4	37.2	69.2

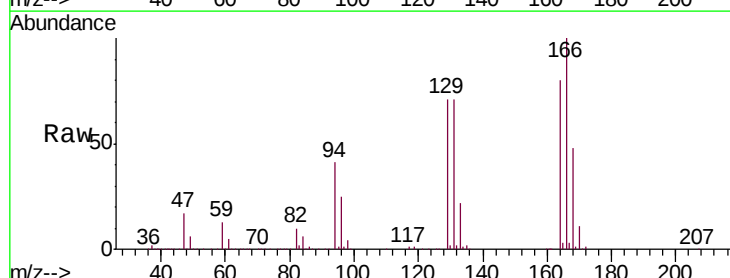


Abundance Ion 97.00 (96.70 to 97.70): VU0
 Ion 99.00 (98.70 to 99.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0
 Ion 85.00 (84.70 to 85.70): VU0

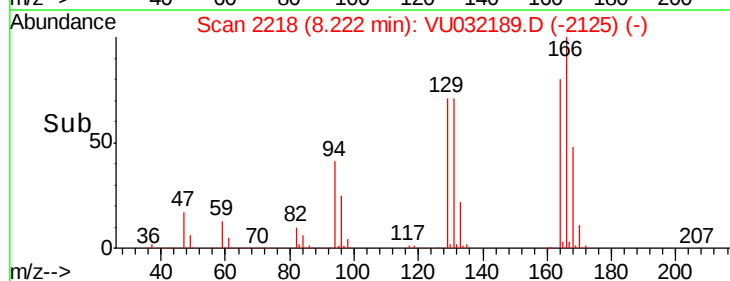
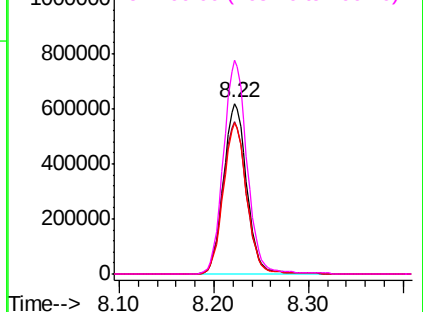


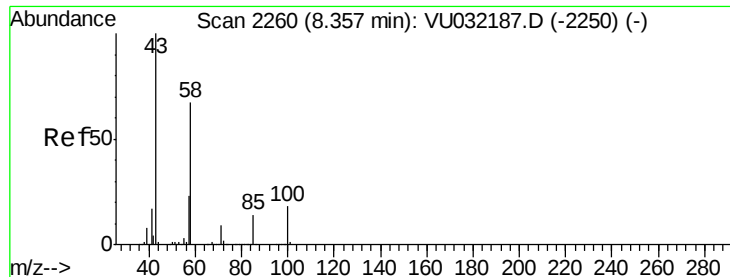
#46
 Tetrachloroethene
 Concen: 198.969 ug/L
 RT: 8.22 min Scan# 2218
 Delta R.T. 0.00 min
 Lab File: VU032189.D
 Acq: 21 May 2019 10:54

Tgt Ion:	164	Resp:	1060634
Ion	Ratio	Lower	Upper
164	100		
129	89.4	60.8	113.0
131	88.8	59.7	110.9
166	125.2	87.6	162.6



Abundance Ion 164.00 (163.70 to 164.70): V
 Ion 129.00 (128.70 to 129.70): V
 Ion 131.00 (130.70 to 131.70): V
 Ion 166.00 (165.70 to 166.70): V

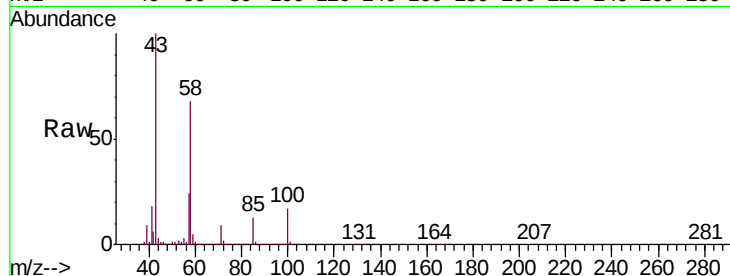




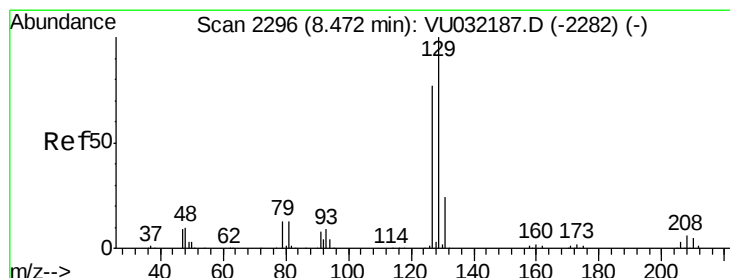
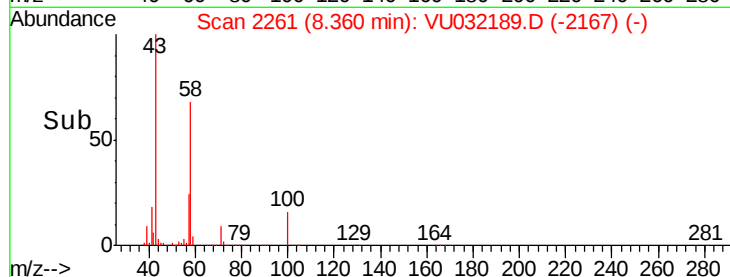
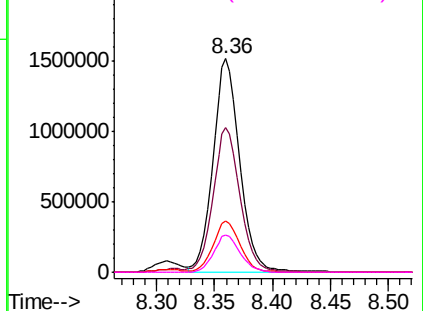
#48
2-Hexanone
Concen: 295.450 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. 0.00 min
Lab File: VU032189.D
Acq: 21 May 2019 10:54

Instrument :
MSVOA_U
ClientSampleId :
VSTD20055

Tgt Ion: 43 Resp: 2435970
Ion Ratio Lower Upper
43 100
58 68.4 54.1 81.1
57 24.1 19.4 29.0
100 17.4 13.6 20.4

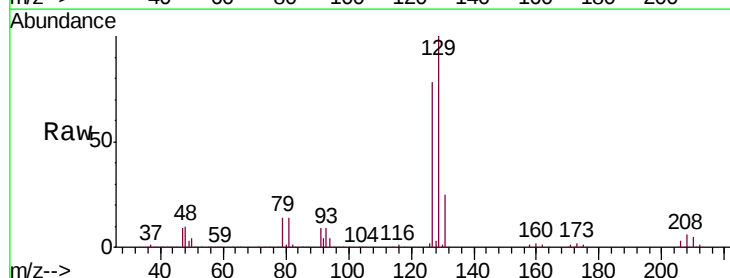


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

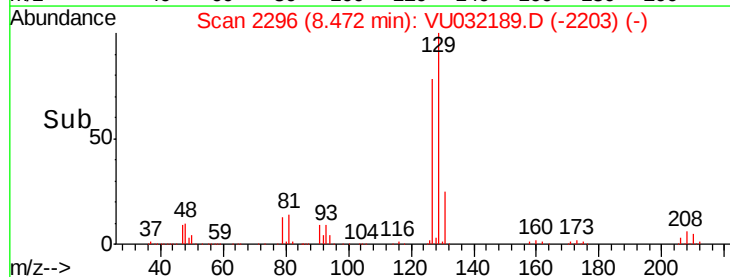
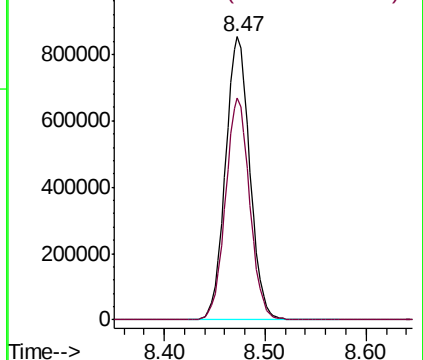


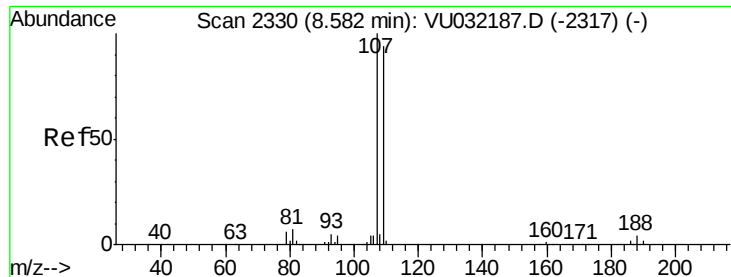
#49
Dibromochloromethane
Concen: 194.221 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU032189.D
Acq: 21 May 2019 10:54

Tgt Ion: 129 Resp: 1439222
Ion Ratio Lower Upper
129 100
127 78.3 53.6 99.6



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V





#50

1,2-Dibromoethane

Concen: 180.373 ug/L

RT: 8.58 min Scan# 2330

Delta R.T. 0.00 min

Lab File: VU032189.D

Acq: 21 May 2019 10:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD20055

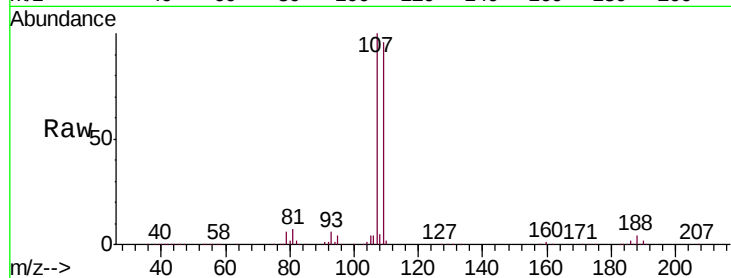
Tgt Ion:107 Resp: 1392222

Ion Ratio Lower Upper

107 100

109 95.7 65.7 122.1

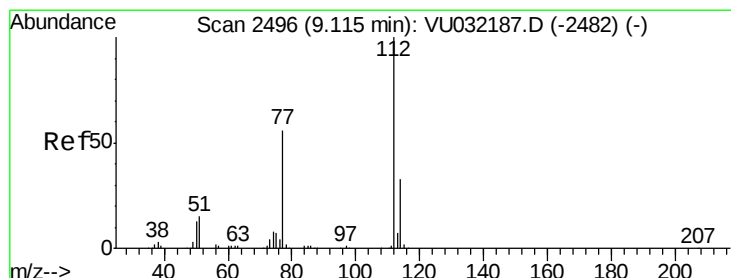
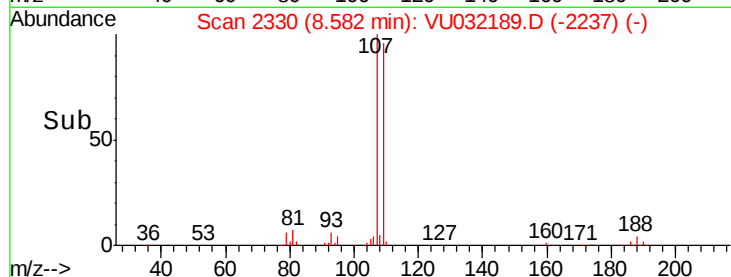
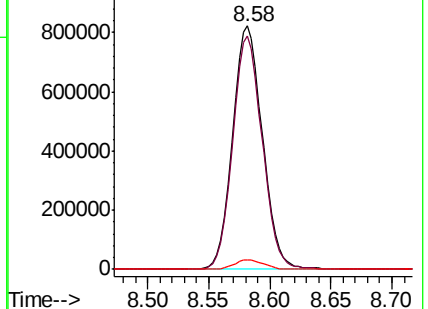
188 3.9 3.1 4.7



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#51

Chlorobenzene

Concen: 186.935 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. 0.00 min

Lab File: VU032189.D

Acq: 21 May 2019 10:54

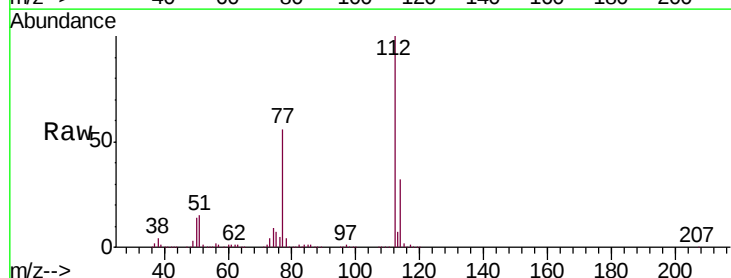
Tgt Ion:112 Resp: 3627938

Ion Ratio Lower Upper

112 100

114 32.1 23.1 42.9

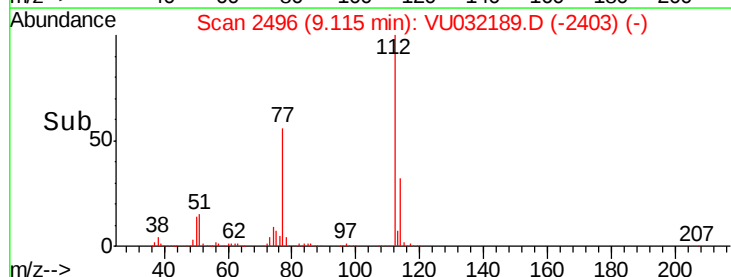
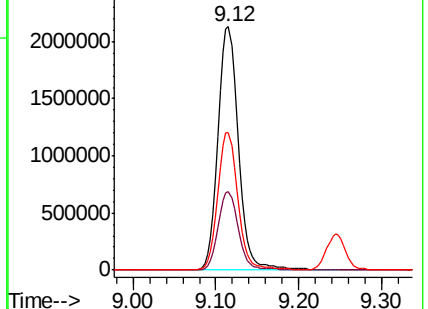
77 56.2 44.9 67.3

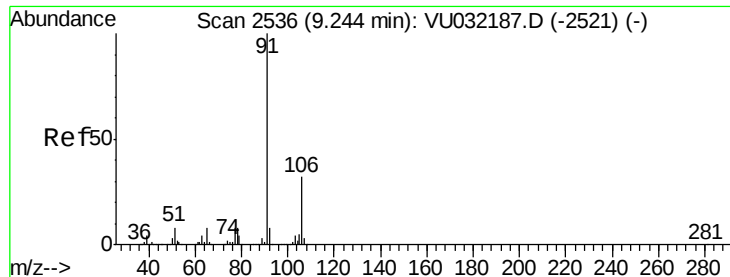


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU





#52

Ethylbenzene

Concen: 189.675 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. 0.00 min

Lab File: VU032189.D

Acq: 21 May 2019 10:54

Instrument :

MSVOA_U

ClientSampleId :

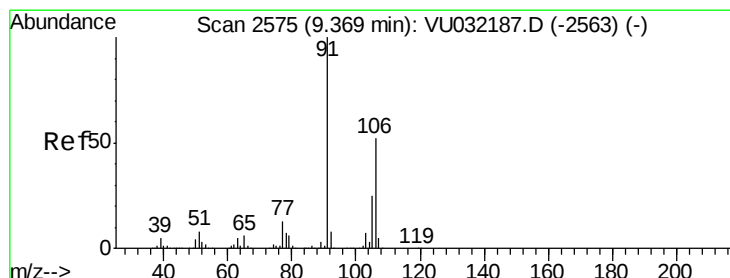
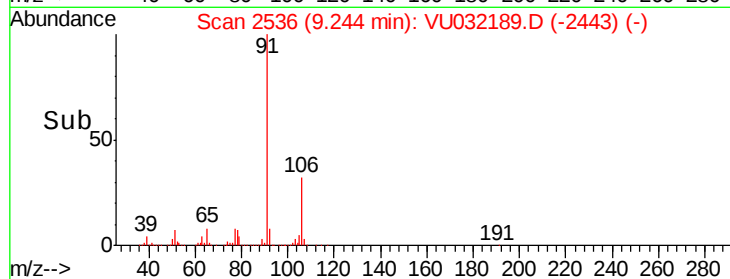
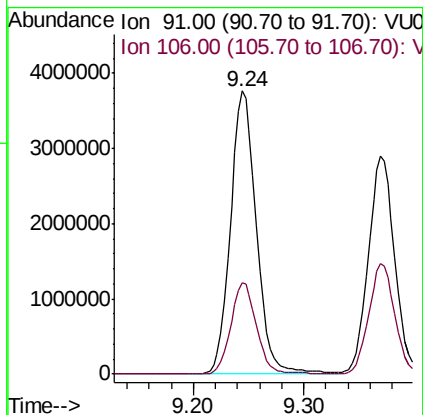
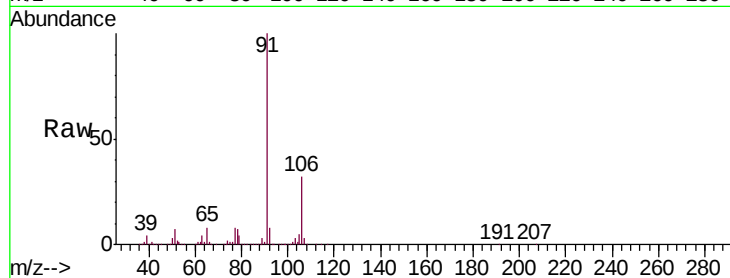
VSTD20055

Tgt Ion: 91 Resp: 6133784

Ion Ratio Lower Upper

91 100

106 32.3 22.5 41.9



#53

m,p-Xylene

Concen: 204.367 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. 0.00 min

Lab File: VU032189.D

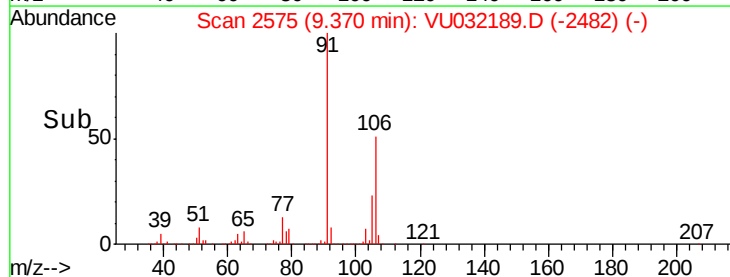
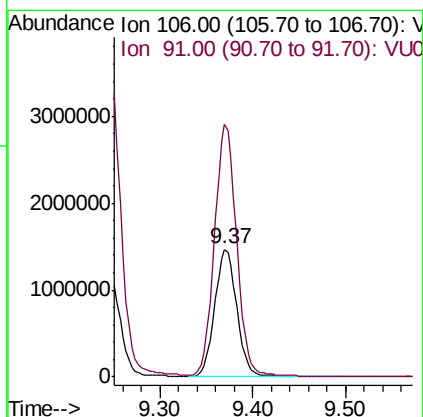
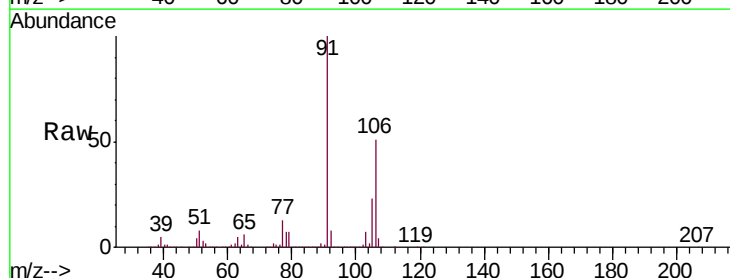
Acq: 21 May 2019 10:54

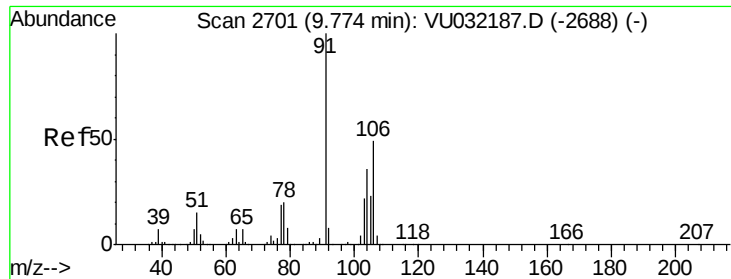
Tgt Ion: 106 Resp: 2436134

Ion Ratio Lower Upper

106 100

91 197.9 136.2 252.9





#54

o-xylene

Concen: 207.419 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU032189.D

Acq: 21 May 2019 10:54

Instrument :

MSVOA_U

ClientSampleId :

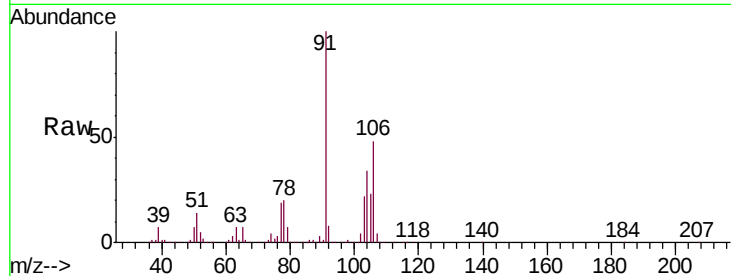
VSTD20055

Tgt Ion:106 Resp: 2453125

Ion Ratio Lower Upper

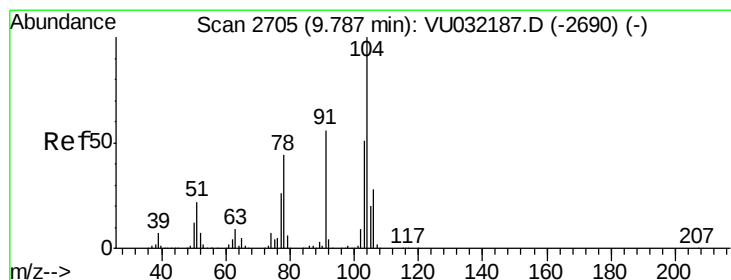
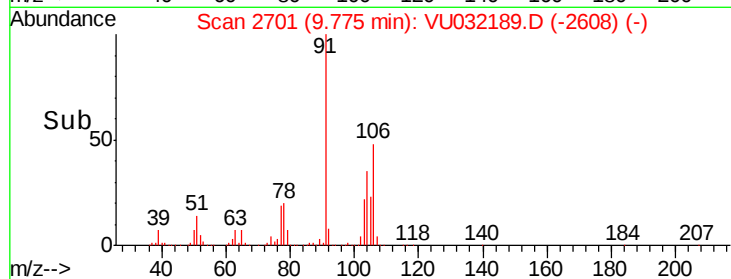
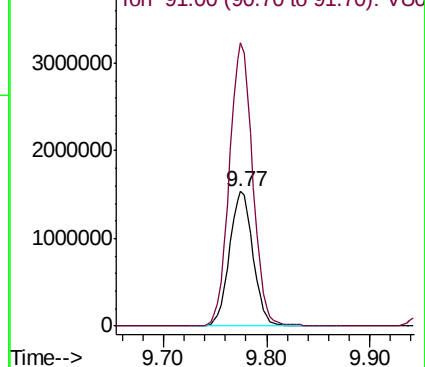
106 100

91 210.0 143.1 265.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 212.492 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. 0.00 min

Lab File: VU032189.D

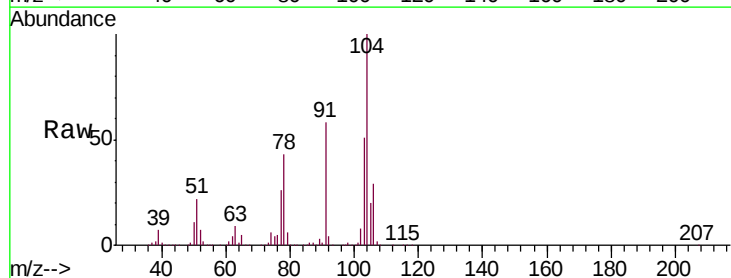
Acq: 21 May 2019 10:54

Tgt Ion:104 Resp: 4305087

Ion Ratio Lower Upper

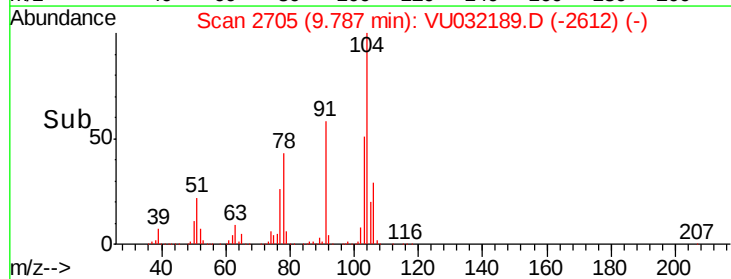
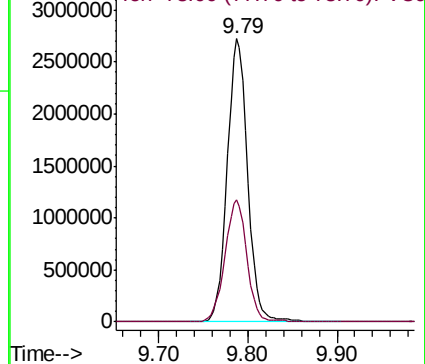
104 100

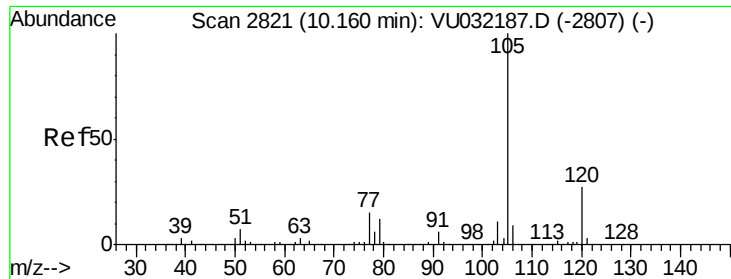
78 43.2 31.0 57.6



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 208.781 ug/L

RT: 10.16 min Scan# 2821

Delta R.T. 0.00 min

Lab File: VU032189.D

Acq: 21 May 2019 10:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD20055

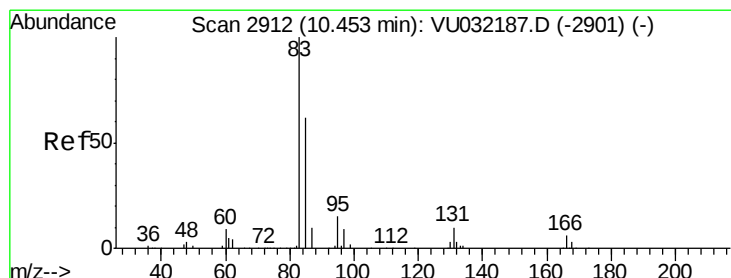
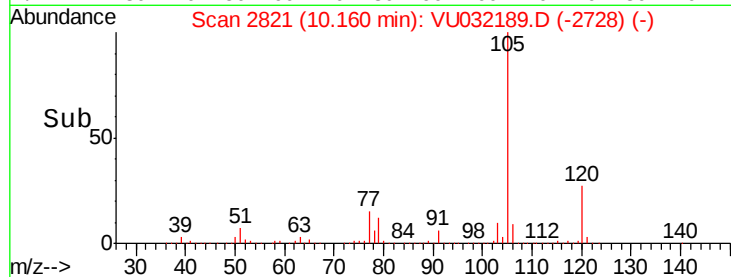
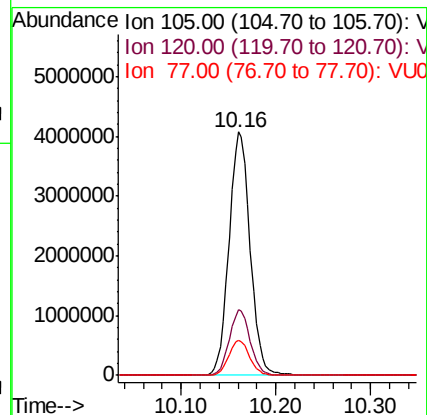
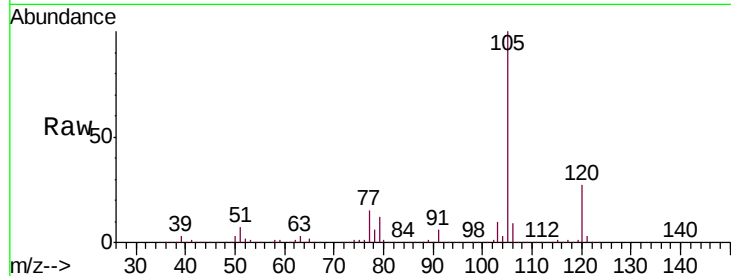
Tgt Ion:105 Resp: 6315570

Ion Ratio Lower Upper

105 100

120 26.7 21.3 31.9

77 14.4 11.7 17.5



#58

1,1,2,2-Tetrachloroethane

Concen: 171.016 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU032189.D

Acq: 21 May 2019 10:54

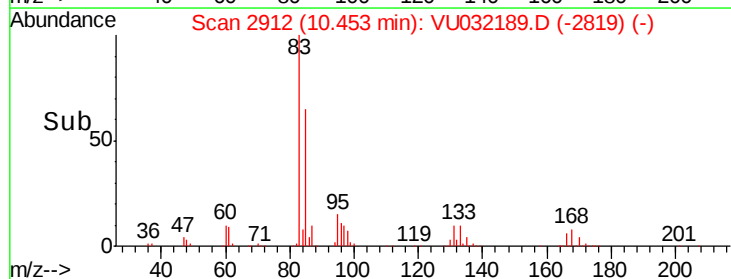
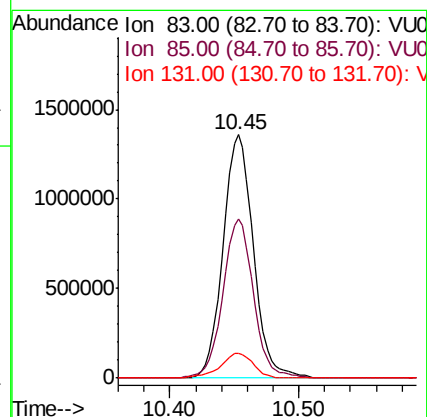
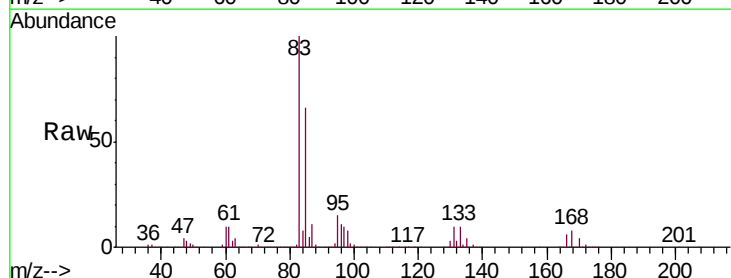
Tgt Ion: 83 Resp: 2216116

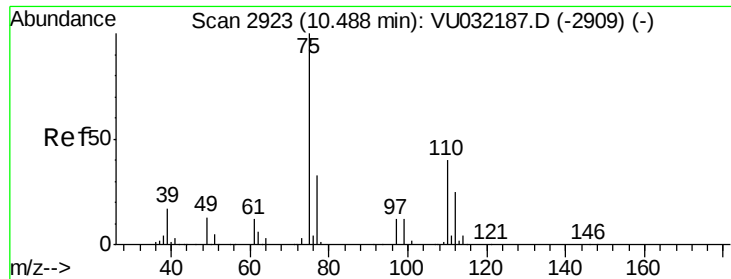
Ion Ratio Lower Upper

83 100

85 65.6 44.1 81.9

131 10.4 8.6 12.8





#59

1,2,3-Trichloropropane

Concen: 167.538 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. 0.00 min

Lab File: VU032189.D

Acq: 21 May 2019 10:54

Instrument :

MSVOA_U

ClientSampleId :

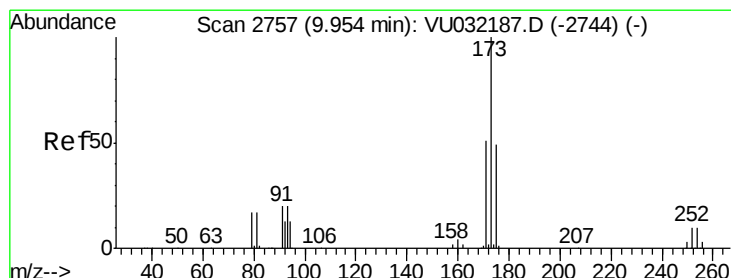
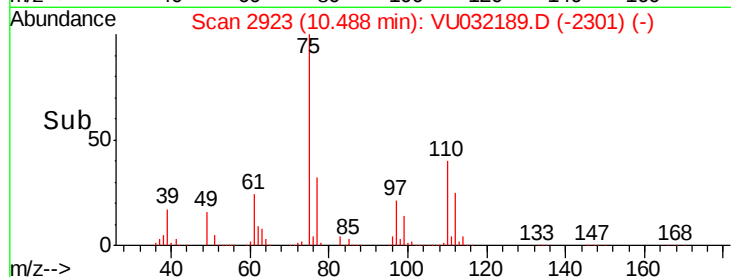
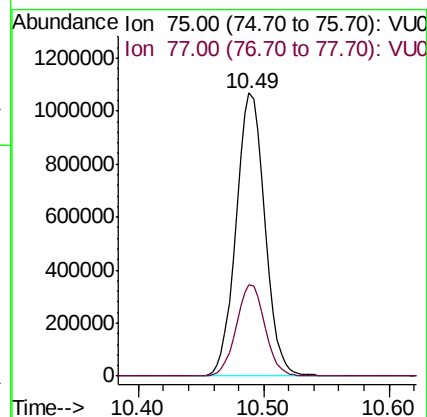
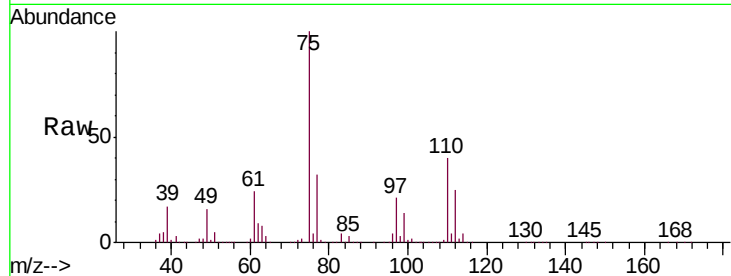
VSTD20055

Tgt Ion: 75 Resp: 1701699

Ion Ratio Lower Upper

75 100

77 32.2 26.0 39.0



#61

Bromoform

Concen: 185.016 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VU032189.D

Acq: 21 May 2019 10:54

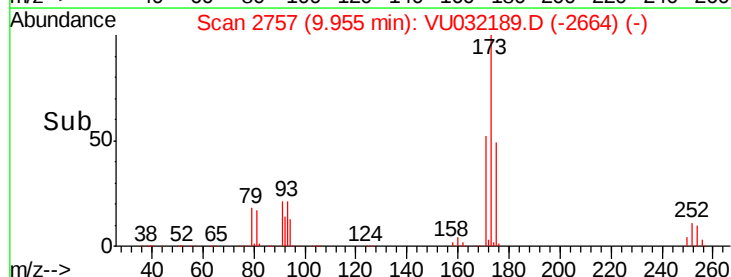
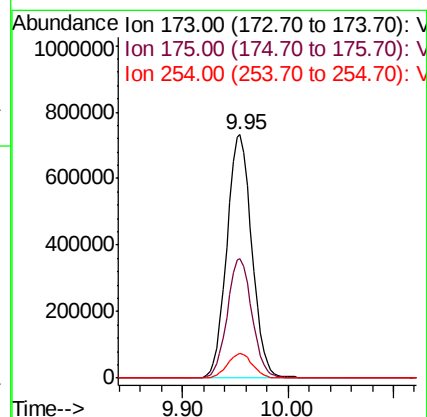
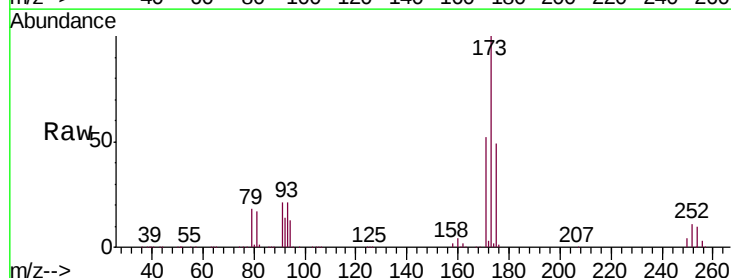
Tgt Ion: 173 Resp: 1199466

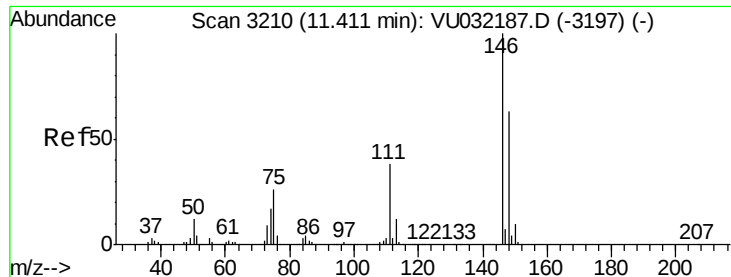
Ion Ratio Lower Upper

173 100

175 48.6 38.6 57.8

254 10.2 7.8 11.6





#62

1,3-Dichlorobenzene

Concen: 191.777 ug/L

RT: 11.41 min Scan# 3210

Delta R.T. 0.00 min

Lab File: VU032189.D

Acq: 21 May 2019 10:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD20055

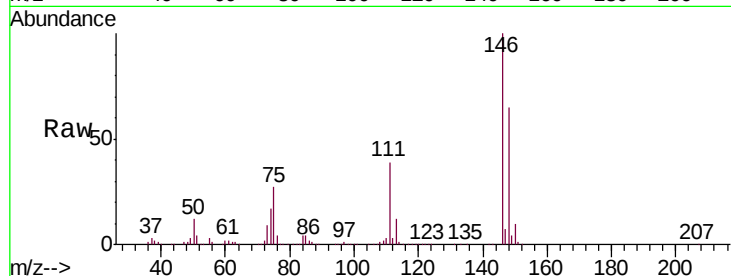
Tgt Ion:146 Resp: 3047673

Ion Ratio Lower Upper

146 100

111 39.0 26.5 49.3

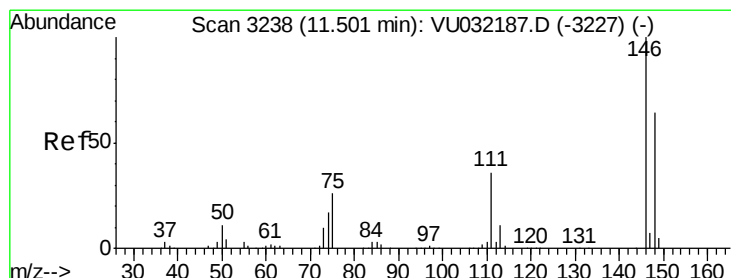
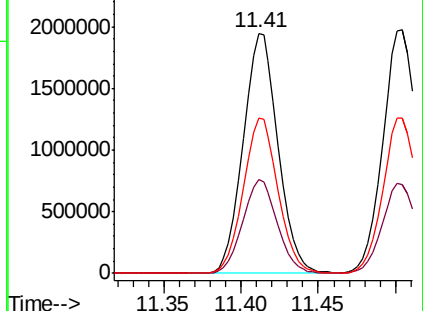
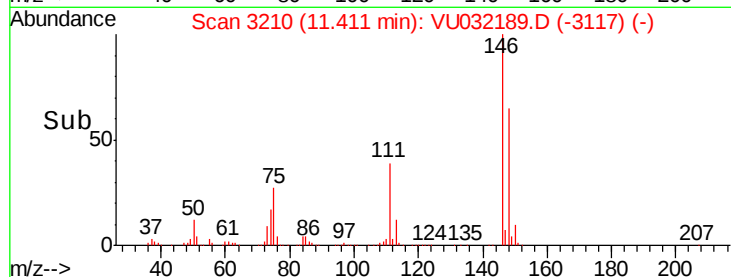
148 64.7 44.2 82.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 185.412 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU032189.D

Acq: 21 May 2019 10:54

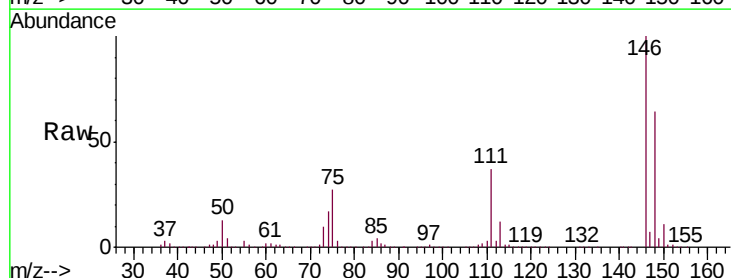
Tgt Ion:146 Resp: 3102737

Ion Ratio Lower Upper

146 100

111 36.6 25.8 47.8

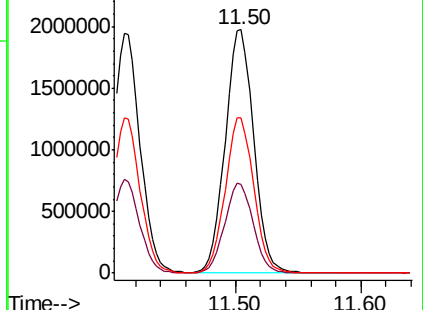
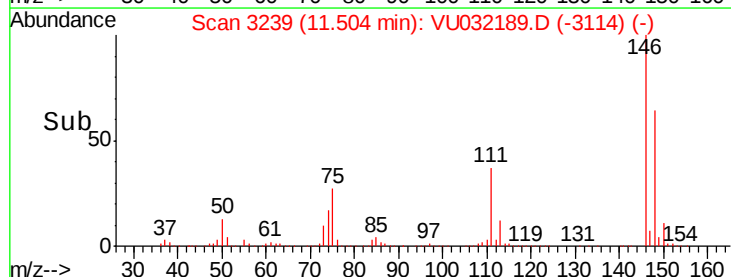
148 63.7 44.9 83.5

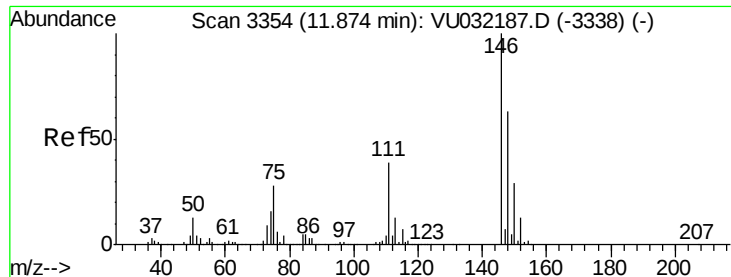


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

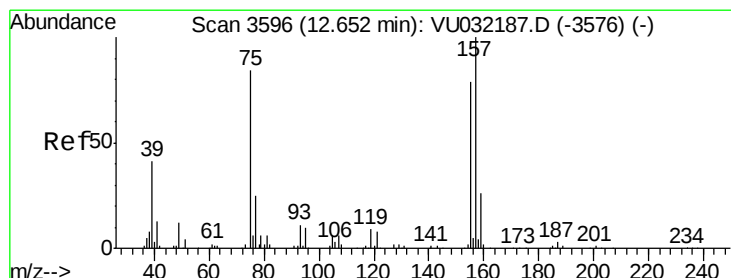
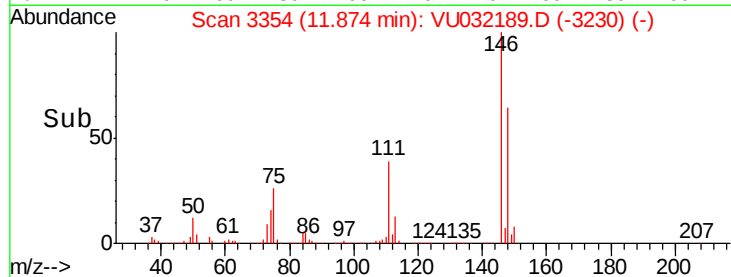
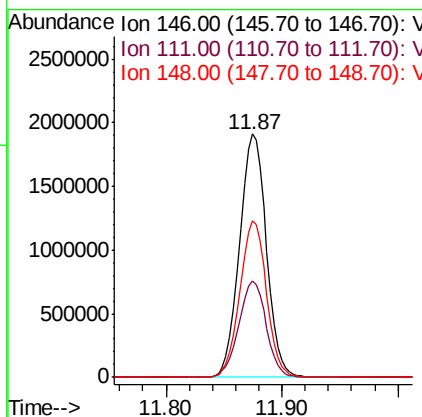
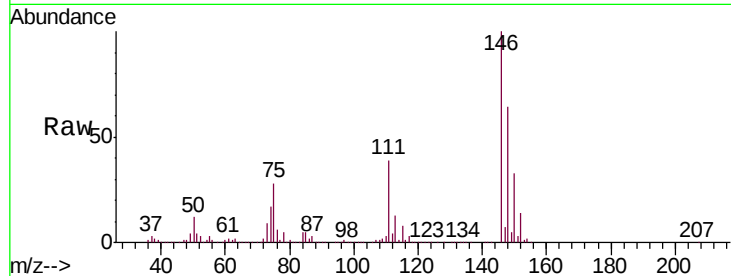




#65
 1,2-Dichlorobenzene
 Concen: 181.674 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU032189.D
 Acq: 21 May 2019 10:54

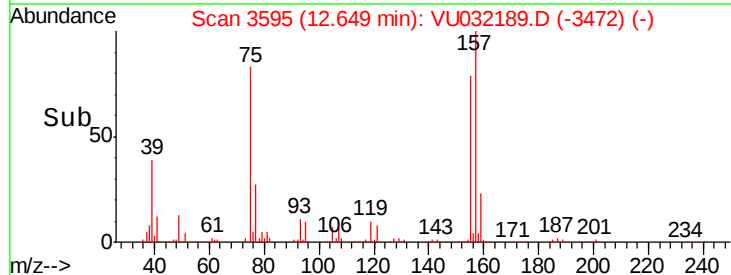
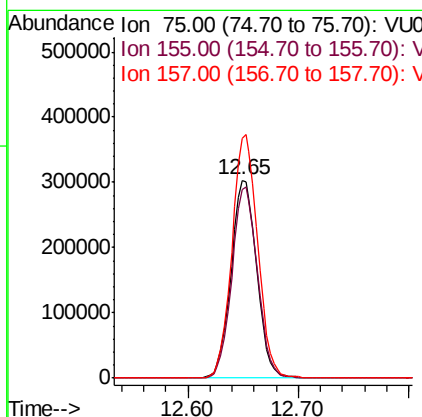
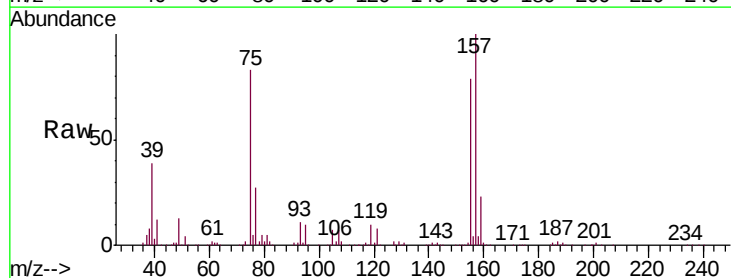
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20055

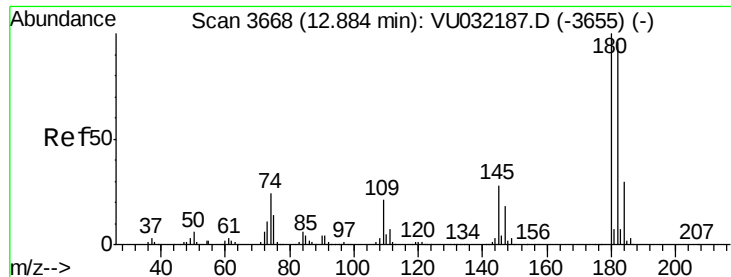
Tgt Ion:146 Resp: 3056339
 Ion Ratio Lower Upper
 146 100
 111 39.5 31.5 47.3
 148 64.3 50.6 76.0



#66
 1,2-Dibromo-3-chloropropane
 Concen: 156.531 ug/L
 RT: 12.65 min Scan# 3595
 Delta R.T. -0.00 min
 Lab File: VU032189.D
 Acq: 21 May 2019 10:54

Tgt Ion: 75 Resp: 490413
 Ion Ratio Lower Upper
 75 100
 155 95.2 74.6 112.0
 157 121.0 94.8 142.2

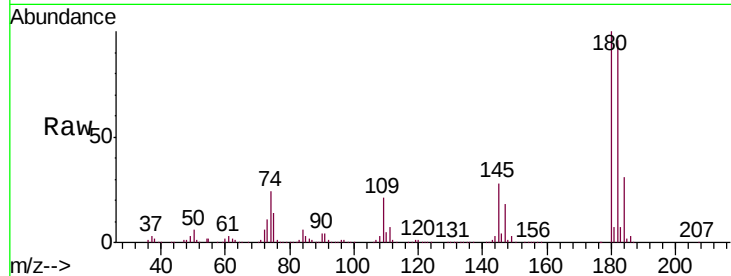




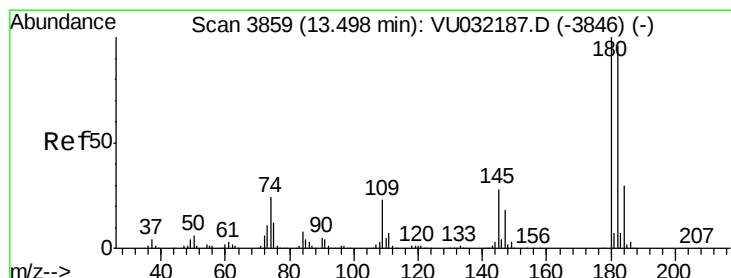
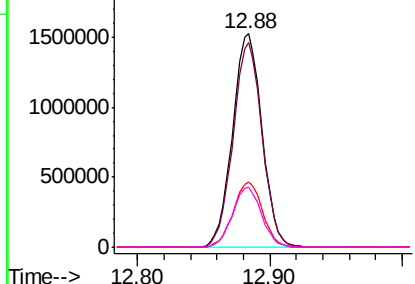
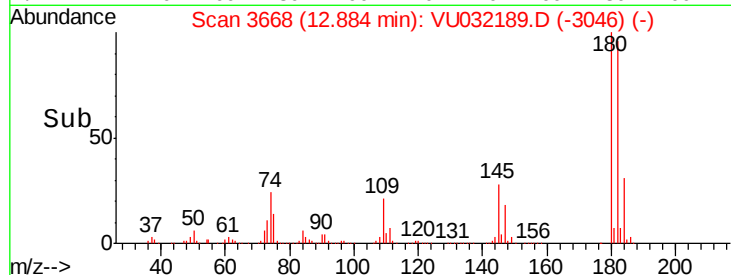
#67
 1,3,5-Trichlorobenzene
 Concen: 203.592 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU032189.D
 Acq: 21 May 2019 10:54

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20055

Tgt Ion:180 Resp: 2347221
 Ion Ratio Lower Upper
 180 100
 182 94.7 76.5 114.7
 184 30.6 24.9 37.3
 145 27.9 22.5 33.7

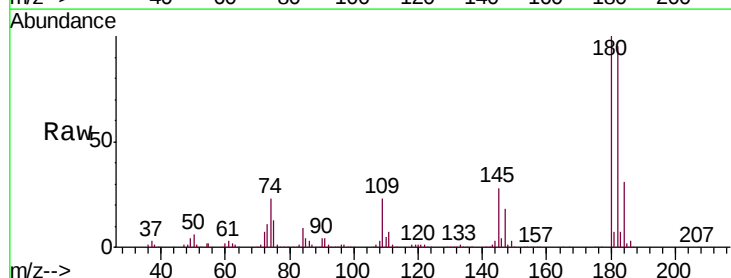


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

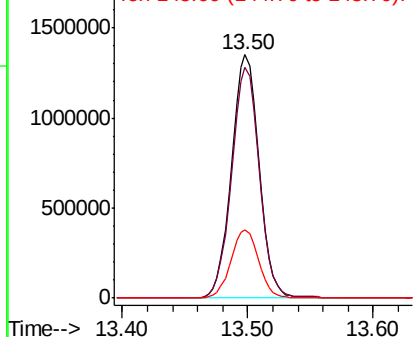
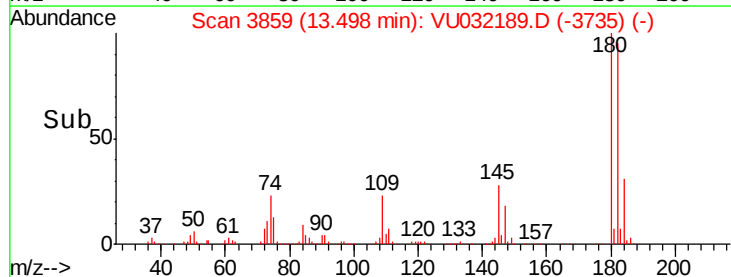


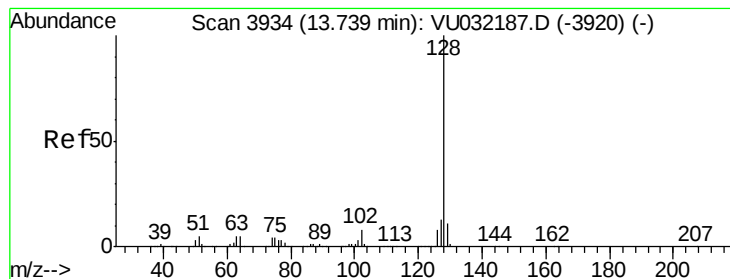
#68
 1,2,4-trichlorobenzene
 Concen: 232.635 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.00 min
 Lab File: VU032189.D
 Acq: 21 May 2019 10:54

Tgt Ion:180 Resp: 2063088
 Ion Ratio Lower Upper
 180 100
 182 95.4 76.8 115.2
 145 28.3 23.0 34.6



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 226.005 ug/L

RT: 13.74 min Scan# 3933

Delta R.T. -0.00 min

Lab File: VU032189.D

Acq: 21 May 2019 10:54

Instrument :

MSVOA_U

ClientSampleId :

VSTD20055

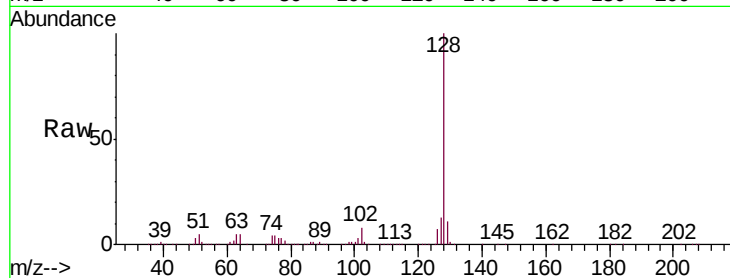
Tgt Ion:128 Resp: 6533132

Ion Ratio Lower Upper

128 100

127 13.0 10.3 15.5

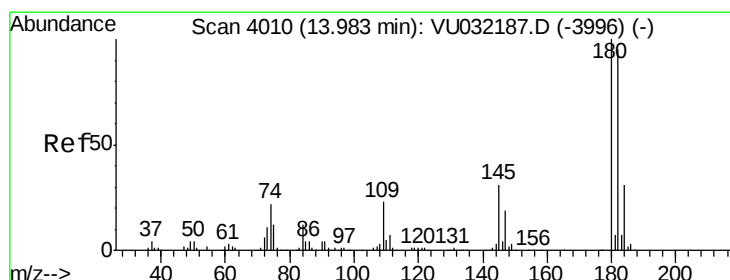
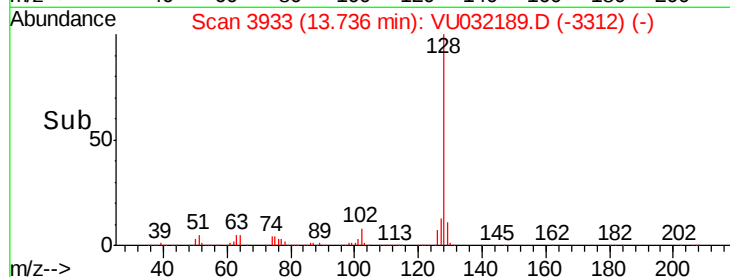
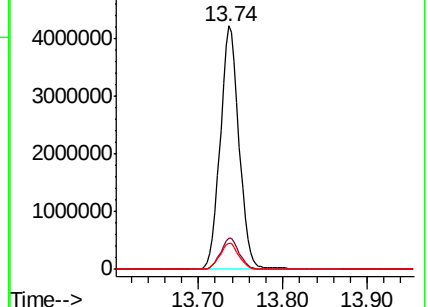
129 10.8 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 216.641 ug/L

RT: 13.98 min Scan# 4009

Delta R.T. -0.00 min

Lab File: VU032189.D

Acq: 21 May 2019 10:54

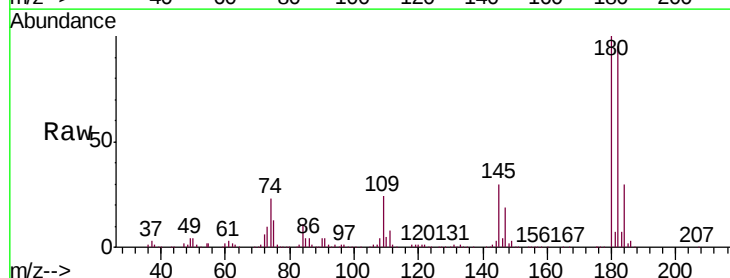
Tgt Ion:180 Resp: 2094960

Ion Ratio Lower Upper

180 100

182 95.2 74.6 112.0

145 30.1 23.8 35.8



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

